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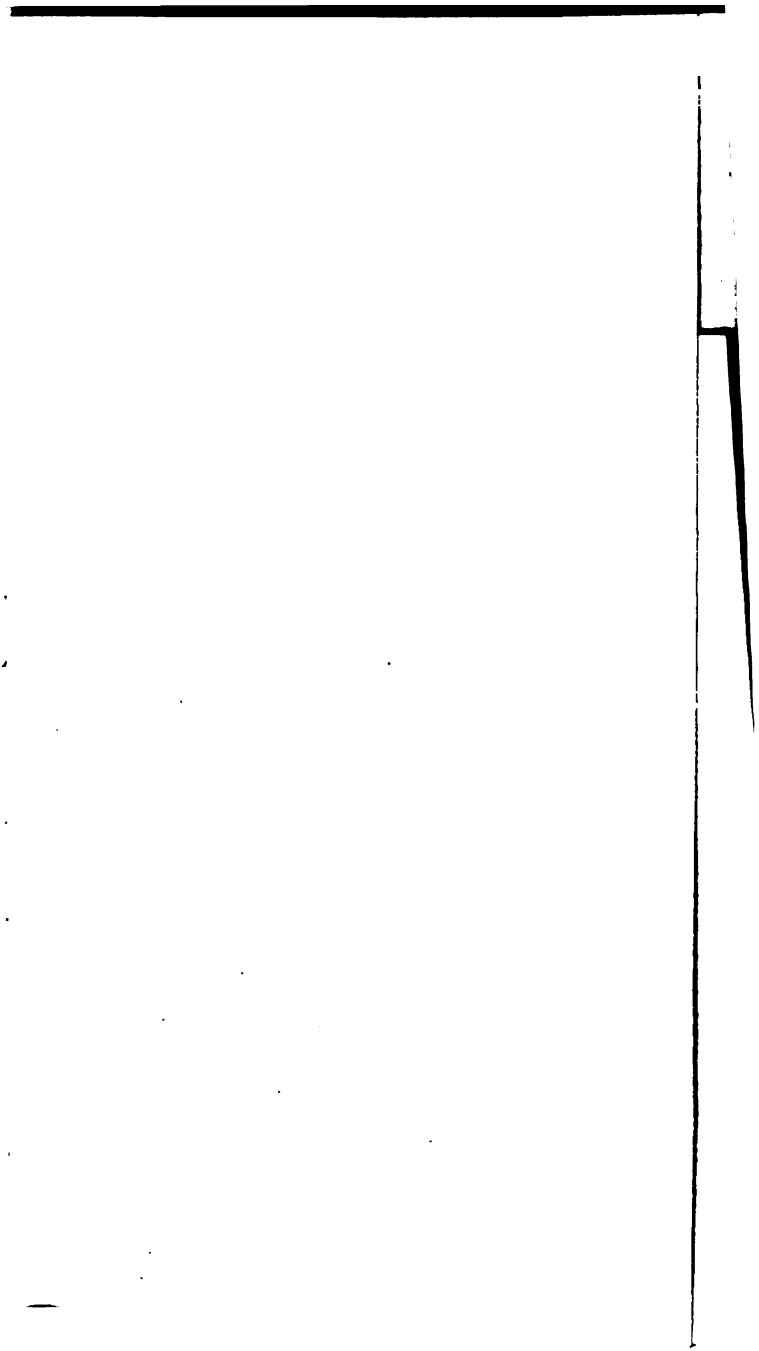

CATALOGUE

OF

DARTMOUTH COLLEGE

TOGETHER WITH

THE MEDICAL SCHOOL

THE THAYER SCHOOL OF CIVIL ENGINEERING

AND

THE AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

FOR THE YEAR

1908-1909

HANOVER, N. H.
PRINTED FOR THE COLLEGE
1908

THE UNIVERSITY PRESS: CAMBRIDGE, U.S.A.

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COLLEGE CALENDAR

DARTMOUTH COLLEGE

1908

September 17–22 . . Examinations for Admission — Thursday to Tuesday.
September 24 . . . Academic year began — Thursday morning.
November 26 . . . Thanksgiving Day; a holiday.

Recess from December 23, 10 A.M., *to January* 6, *inclusive.*

1909

January 29 to Feb. 11 First Semester Examinations.
February 22 . . . Washington's Birthday; a holiday.
March 9 . . . . Town election; a holiday.
March 24 . . . . The Smith and Rollins Prize Speaking.

Recess from April 1, 10 A.M., *to April* 14, *inclusive.*

May 30 . . . . . Memorial Day; a holiday.
June 10–24 . . . . Second Semester Examinations.
June 14–19 . . . College Entrance Board Examinations.
June 26 . . . . . Speaking for the Barge medal and for the "Class of 1866" prizes — Saturday, 8 P.M.
June 27 . . . . . Baccalaureate Discourse — Sunday, 10.30 A.M.
June 28 . . . . . Class Day Exercises — Monday, 3 P.M.
June 29 . . . . . Annual Meeting of the Phi Beta Kappa Society — Tuesday, 8.30 A.M.
Address — Alumni Association — 10 30 A.M.
Annual Meeting of the Alumni Association — 2.30 P.M.
Greek Letter Society Reunions — 5 P.M.
President's Reception, College Hall, 9–11 P.M.
June 30 . . . . . COMMENCEMENT — Last Wednesday in June.

1909 *Summer Vacation of Twelve Weeks.*

September 16–21 . . Examinations for Admission.
September 21, 22 . Registration — Tuesday, Wednesday.
September 23 . . . Academic year begins — Thursday morning.
December 23 . . . Christmas recess begins.

MEDICAL SCHOOL

1908

August 4 . . . . Third and Fourth Year Courses began.
September 24 . . . First and Second Year Courses began.
Recess from December 23, 10 A.M., *to January* 6, *inclusive.*

1909

March 26 . . . . Third and Fourth Year Courses end.
Examinations by Delegates.
Graduating Exercises.
Recess from April 1, 10 A.M., *to April* 14, *inclusive.*
June 30 . . . . . First and Second Year Courses end.
August 3 . . . . Third and Fourth Year Courses begin.
September 23 . . . First and Second Year Courses begin.

THAYER SCHOOL OF CIVIL ENGINEERING

1908

July 14 . . . . . First Year Course began.
September 15 . . . Second Year Course began.
December 23 . . . Recess of twelve days begins.

1909

April 22 . . . . Thayer School Year ends.
July 13 . . . . . First Year Course begins.

AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

1908

September 24 . . . Year began — Thursday morning.
November 26 . . . Thanksgiving Day; a holiday.
Recess from December 23, 10 A.M., *to January* 6, *inclusive.*

1909

January 29 to Feb. 11 Examinations for First Year Course.
April 1–14 . . . . Recess for First Year Course.
April 22 . . . . Second Year Course ends.
June 10–24 . . . . Examinations for First Year Course.

CHARTER

THE

CHARTER OF DARTMOUTH COLLEGE

GEORGE THE THIRD by the grace of GOD of Great Britain France and Ireland KING Defender of the Faith, and so forth. —

To all to whom these Presents shall come.

GREETING.

WHEREAS it hath been represented to our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our Province of NEW HAMPSHIRE in New England in AMERICA, that the Reverend ELEAZER WHEELOCK of Lebanon in the Colony of Connecticut in New England aforesaid, now Doctor in Divinity, did on or about the year of our Lord one thousand seven hundred and Fifty four, at his own expence, on his own Estate and Plantation set on foot an INDIAN Charity School and for several years through the assistance of well-disposed Persons in America, cloathed, maintained and educated a number of the Children of the Indian Natives, with a view to their carrying the Gospel in their own Language and spreading the knowledge of the great Redeemer among their Savage Tribes, and hath actually employ'd a number of them as Missionaries and Schoolmasters in the Wilderness for that purpose: and by the blessing of GOD upon the endeavours of said Wheelock the design became reputable amoung the Indians insomuch that a larger number desired the Education of their Children in said School; and were also disposed to receive Missionaries and Schoolmasters in the Wilderness more than could be supported by the charitable Contributions in these American Colonies. — WHEREUPON the said Eleazer Wheelock thought it expedient that endeavours should be used to raise Contributions from well disposed Persons in England for the carrying on and extending said undertaking, And for that purpose said Eleazer Wheelock requested the Reverend Nathaniel

Whitaker now Doctor in Divinity to go over to England for that purpose, and sent over with him the Reverend Samson Occom an Indian Minister who had been educated by the said Wheelock, And to enable the said Whitaker to the more successful performance of said Work on which he was sent, said Wheelock gave him a full Power of Attorney by which said Whitaker solicited those worthy & generous Contributors to the Charity viz^{t}. The Right Honorable WILLIAM Earl of DARTMOUTH, The Honorable Sir SIDNEY STAFFORD SMYTHE Knight, one of the Barons of his Majesty's Court of Exchequer, JOHN THORNTON of Clapham in the County of Surrey Esquire, SAMUEL ROFFEY of Lincoln's Inn fields in the County of Middlesex Esquire, CHARLES HARDY of the parish of Saint Mary-le-bonne in said County Esquire, DANIEL WEST of Christ's church Spitalfields in the County aforesaid Esquire, SAMUEL SAVAGE of the same place Gentleman, JOSIAH ROBERTS of the parish of Saint Edmund the King Lombard Street, London Gentleman, and ROBERT KEEN of the parish of Saint Botolph Aldgate London, Gentleman, to receive the several Sums of Money which should be contributed, and to be Trustees for the Contributors to such Charity, which they chearfully agreed to. Whereupon the said Whitaker did by virtue of said Power of Attorney constitute and appoint the said Earl of Dartmouth Sir Sydney Stafford Smythe, John Thornton, Samuel Roffey, Charles Hardy & Daniel West Esquires, and Samuel Savage Josiah Roberts and Robert Keen Gentlemen to be Trustees of the Money which had then been contributed, and which should by his means be contributed for said Purpose; which Trust they have accepted as by their engrossed Declaration of the same under their Hands and Seals well executed fully appears, and the same has also been ratified by a deed of Trust well executed by the said Wheelock; — And the said Wheelock further represents that he has by power of Attorney for many weighty reasons, given full Power to the said Trustees to fix upon and determine the place for said School most subservient to the great end in view, and to enable them understandingly to give the preference, the said Wheelock has laid before the said Trustees the several Offers which have been generously made in the several Governments in America to encourage and invite the settlement of said School among them for their own private emolument, and the increase of Learning in their respective places as well as for the furtherance of the general design in view. And whereas a large number of the Proprietors of Lands in the western part of this our Province of New Hampshire,

animated & excited thereto by the generous example of his Excellency their Governor, and by the liberal Contributions of many Noblemen and Gentlemen in England; and especially by the consideration that such a situation would be as convenient as any for carrying on the great design among the Indians; and also considering that without the least impediment to the said design the same School may be enlarged & improved to promote Learning among the English, & be a means to supply a great number of Churches & Congregations which are likely soon to be formed in that new Country with a learned & orthodox ministry; they the said Proprietors have promised large Tracts of Land for the uses aforesaid, provided the School shall be settled in the western part of our said Province. And they the said Right Honorable, Honorable and worthy Trustees before mentioned having maturely consider'd the reasons & arguments in favour of the several Places proposed, have given the preference to the western part of our said Province lying on Connecticut River, as a situation most convenient for said School: And the said Wheelock has further represented a necessity of a legal Incorporation in order to the safety and well being of said Seminary, and its being capable of the tenure & disposal of Lands & bequests for the use of the same. And the said Wheelock has also represented that for many weighty reasons it will be expedient at least in the infancy of said Institution or 'till it can be accommodated in that new Country and he & his Friends be able to remove and settle by and round about it, that the Gentlemen whom he has already nominated in his last Will (which he has transmitted to the aforesaid Gentlemen of the Trust in England) to be Trustees in America should be of the Corporation now proposed & also as there are already large Collections for said School in the hands of the aforesaid Gentlemen of the Trust in England and all reason to believe from their singular wisdom, piety and zeal to promote the Redeemers cause (which has already procured for them the utmost confidence of the Kingdom) we may expect they will appoint Successors in time to come who will be men of the same Spirit whereby great good may & will accrue many ways to the institution & much be done by their example and influence to encourage and facilitate the whole design in view; for which reason said Wheelock desires that the Trustees aforesaid may be vested with all that power therein which can consist with their distance from the same KNOW YE THEREFORE, that We considering the Premises and being willing to encourage the laudable & charitable design of spreading Christian

Knowledge among the Savages of our American Wilderness and also that the best means of Education be established in our Province of New Hampshire for the benefit of said Province, DO of our special grace certain knowledge and mere motion by and with the advice of our Council for said Province by these Presents Will, ordain, grant & constitute that there be a College erected in our said Province of New Hampshire by the name of DARTMOUTH COLLEGE for the education & instruction of Youth of the Indian Tribes in this Land in reading, writing & all parts of Learning which shall appear necessary and expedient for civilizing & christianizing Children of Pagans as well as in all liberal Arts and Sciences; and also of English Youth and any others, and the Trustees of said College may and shall be one body corporate and politick in deed action & name, and shall be called, named & distinguish'd by the Name of the TRUSTEES of DARTMOUTH COLLEGE And further we have willed given granted constituted and ordained and by this our present Charter of our special grace certain knowledge & mere motion with the advice aforesaid DO for us our heirs and successors forever will give grant constitute & ordain that there shall be in the said DARTMOUTH COLLEGE from henceforth and forever a body politick consisting of Trustees of said Dartmouth College And for the more full & perfect erection of said Corporation & body politick consisting of Trustees of Dartmouth College We of our special grace certain knowledge & mere motion DO by these Presents for us our Heirs & Successors make ordain constitute and appoint our trusty and well beloved JOHN WENTWORTH, Esquire Governor of our said Province and the GOVERNOR of our said Province of New Hampshire for the time being and our Trusty and well beloved THEODORE ATKINSON Esquire now President of our Council of our said Province GEORGE JAFFREY & DANIEL PIERCE Esquires both of our said Council and PETER GILMAN Esquire now Speaker of our House of Representatives in said Province & WILLIAM PITKIN, Esquire one of the Assistants of our Colony of Connecticut & our said trusty and well beloved ELEAZER WHEELOCK of Lebanon Doctor in Divinity, BENJAMIN POMROY of Hebron JAMES LOCKWOOD of Weathersfield TIMOTHY PITKIN & JOHN SMALLEY of Farmington & WILLIAM PATTEN of Hartford all of our said Colony of Connecticut Ministers of the Gospel. (the whole number of said Trustees consisting and hereafter forever to consist of TWELVE & no more) to be Trustees of said Dartmouth College in this our Province of New Hampshire And we do further of our special grace certain knowl-

edge and mere motion for us our Heirs and Successors will give grant and appoint that the said Trustees & their Successors shall forever hereafter be in deed act & name, a body corporate & politick & that they the said body corporate & politick shall be known & distinguished in all deeds grants bargains sales writings evidences or otherwise howsoever, & in all Courts forever hereafter plead and be impleaded by the Name of the Trustees of Dartmouth College and that the said Corporation by the name aforesaid shall be able and in law capable for the use of said Dartmouth College to have get acquire purchase receive hold possess and enjoy tenements hereditaments jurisdictions and franchizes for themselves and their Successors in fee simple or otherwise howsoever & to purchase receive or build any House or Houses or any other buildings as they shall think needful & convenient for the use of said Dartmouth College and in such Town in the western part of our said Province of New Hampshire as shall by said Trustees or the major part of them be agreed on their said agreement to be evidenced by an instrument in writing under their hands ascertaining the same And also to receive and dispose of any Lands goods chattels and other things of what nature soever for the use aforesaid And also to have accept and receive any rents profits annuities gifts legacies donations or bequests of any kind whatsoever for the use aforesaid so nevertheless that the yearly value of the Premises do not exceed the Sum of six thousand pounds Sterling[1] and therewith or otherwise to support and pay as the said Trustees or the major part of such of them as are regularly convened for that purpose shall agree the President Tutors and other Officers & Ministers of said Dartmouth College & also to pay all such Missionaries and Schoolmasters as shall be authorized appointed & employed by them for civilizing & christianizing & instructing the Indian Natives of this Land their several allowances & also their respective annual Salaries or allowances & all such necessary & contingent charges as from time to time shall arise & accrue relating to the said Dartmouth College And also to bargain sell let or assign Lands tenements or hereditaments goods, or chattels & all other things whatsoever by the name aforesaid in as full and ample a manner to all intents and purposes as a natural person or other body politick or corporate is able to do by the laws of our realm of Great Britain or of said province of New Hampshire And further of our special grace certain knowledge & mere motion to the intent that our said Corporation & body politick

[1] Subsequently amended so as to remove all limitations.

may answer the end of their erection & Constitution, & may have perpetual succession & continuance forever We do for us our heirs and Successors will give & grant unto the Trustees of Dartmouth College & to their Successors forever that there shall be once a year & every year a meeting of said Trustees held at said Dartmouth College at such time as by said Trustees or the major part of them at any legal meeting of said Trustees shall be agreed on the first meeting to be called by the said Eleazer Wheelock as soon as conveniently may be within one year next after the enrollment of these our Letters Patent at such time & place as he shall judge proper And the said Trustees or the major part of any seven or more of them shall then determine on the time for holding the annual Meeting aforesaid which may be alter'd as they shall hereafter find most convenient And we further order and direct that the said Eleazer Wheelock shall notify the time for holding said first meeting to be called as aforesaid by sending a letter to each of said Trustees & causing an advertizement thereof to be printed in the New Hampshire Gazette & in some publick News Paper printed in the Colony of Connecticut But in case of the Death or incapacity of the said Wheelock then such meeting to be notified in manner aforesaid by the Governor or Commander in Chief of our said Province for the time being And we do also for us our Heirs & successors hereby will give and grant unto the said Trustees of Dartmouth College aforesaid & to their Successors forever that when any seven or more of the said Trustees or their Successors are convened & met together for the service of said Dartmouth College at any time or times such seven or more shall be capable to act as fully & amply to all intents & purposes as if all the Trustees of said College were personally present — & all affairs & actions whatsoever under the care of the said Trustees shall be determined by the majority or greater number of those seven or more Trustees so convened & met together And we do further will ordain & direct that the President Trustees, Professors & Tutors & all such Officers as shall be appointed for the publick instruction & government of said College shall before they undertake the execution of their Offices or Trusts or within one year after take the Oaths & subscribe the declaration provided by an act of Parliament made in the first year of King George the first entitled "An act for the further security of his Majesty's Person & government & the succession of the Crown in the heirs of the late princess Sophia being Protestants, & for the extinguishing the hopes of the pretended Prince of Wales & his open & secret Abettors," that is to say the President before the Governor of our

said Province for the time being or by one by him impowered to that service or by the President of our said Council & the Trustees Professors Tutors & other Officers before the President of said College for the time being who is hereby impower'd to administer the same an entry of all which shall be made in the Records of said College. And we do for us our heirs & Successors hereby will give & grant full Power & Authority to the President hereafter by us named & to his Successors or in case of his failure to any three or more of the said Trustees to appoint other occasional meetings from time to time of the said seven Trustees or any greater number of them to transact any matter or thing necessary to be done before the next annual meeting and to order notice to the said seven or any greater number of them of the times & places of meeting for the service aforesaid by a letter under his or their hands of the same one month[1] before said meeting Provided always that no standing Rule or order be made or altered for the regulation of said College nor any President or Professor be chosen or displaced nor any other matter or thing transacted or done which shall continue in force after the then next annual meeting of said Trustees as aforesaid And further we do by these Presents for us our Heirs and Successors, create make constitute nominate & appoint our Trusty and well beloved ELEAZER WHEELOCK Doctor in Divinity the FOUNDER of said College to be PRESIDENT of said DARTMOUTH COLLEGE and to have the immediate care of Education & government of such Students as shall be admitted into said DARTMOUTH COLLEGE for instruction & education and do will give & grant to him in said Office full power authority & right to nominate appoint constitute & ordain by his last will such suitable & meet person or Persons as he shall chuse to succeed him in the Presidency of said Dartmouth College & the person so appointed by his last Will to continue in Office vested with all the powers priviledges Jurisdiction & authority of a President of said Dartmouth College that is to say so long and untill such appointment by said last Will shall be disapproved by the Trustees of said Dartmouth College And we do also for us our heirs and Successors will give & grant to the said Trustees of said Dartmouth College & to their Successors forever or any seven or more of them convened as aforesaid that in the case of the ceasing or failure of a President by any means whatsoever that the said Trustees do elect nominate & appoint SUCH qualified person as they or the major part of any seven or more of them convened for that purpose as

[1] Amended so that a legal meeting may be held at such time and upon such notice as may be prescribed by the rules of the Trustees.

Trustees shall die or by removal or otherwise cease to be Trustees or shall by their Judgement become unfit or incapable to act as Trustees of said College do as soon as may be after the happening of such unfitness or incapacity of such Trustee or Trustees appoint such Trustee or Trustees as shall supply the place of him or them so dying or becoming incapable to serve the

interests of said College & every Trustee so elected & appointed shall by virtue of these presents & such election & appointment be vested with all the Powers & priviledges which any of the other Trustees of said College are hereby vested with And we do further Will ordain & direct that from & after the expiration of Two years from the enrollment of these Presents such vacancy or vacancies as may or shall happen by death or otherwise in the aforesaid number of Trustees shall be filled up by election as aforesaid so that when such vacancies shall be filled up unto the complete number of TWELVE Trustees Eight[1] of the aforesaid whole number of the body of Trustees shall be resident and respectable Freeholders of our said Province of New Hampshire & seven of said whole number shall be Laymen. And we do further of our special grace certain knowledge and mere motion will give and grant unto the said Trustees of Dartmouth College that they and their Successors or the major part of any seven of them which shall convene for that purpose as is above directed may make & they are hereby fully impowered from time to time fully & lawfully to make and establish such Ordinances Orders & Laws as may tend to the good & wholesome government of the said College & all the Students & the several Officers & Ministers thereof & to the publick benefit of the same not repugnant to the Laws & Statutes of our Realm of GREAT BRITAIN or of this our Province of NEW HAMPSHIRE and not excluding any Person of any religious denomination whatsoever from free & equal liberty & advantage of Education or from any of the liberties and privileges or immunities of the said College on account of his or their speculative sentiments in Religion, & of his or their being of a religious profession different from the said Trustees of the said Dartmouth College And such Ordinances orders & Laws which shall as aforesaid be made We do by these presents for us our heirs & Successors ratify allow of, & confirm as good & effectual to oblige & bind all the Students & the several Officers & Ministers of the said College And we do hereby authorize & impower the said Trustees of Dartmouth College & the President Tutors & Professors by them elected & appointed as aforesaid to put such ordinances laws and orders in execution to all proper intents and purposes And we do further of our special grace certain knowledge & mere motion Will give & grant unto the said Trustees of said Dartmouth College for the encouragement of Learning and animating the Students of said College to diligence & industry & a laudable progress in Literature that they & their

[1] Subsequently amended so as to read *seven*.

Successors or the major part of any seven or more of them convened for that purpose as above directed do by the President of said College for the time being or any other deputed by them give & grant any such degree or degrees to any of the Students of the said College or any others by them thought worthy thereof as are usually granted in either of the Universities or any other College in our Realm of Great Britain & that they sign & seal Diplomas or certificates of such Graduations to be kept by the Graduates as perpetual memorials & testimonials thereof. AND we do further of our special grace certain knowledge & mere motion for us our heirs & Successors by these Presents give & grant unto the Trustees of said Dartmouth College & to their Successors that they & their Successors shall have a common SEAL under which they may pass all Diplomas or Certificates of degrees & all other affairs & business of & concerning the said College which shall be engraven in such a form and with such an inscription as shall be devised by the said Trustees for the time being or by the major part of any seven or more of them convened for the service of the said College as is above directed And we do further for us our heirs & Successors give and grant unto the said Trustees of the said Dartmouth College & their Successors or to the major part of any seven or more of them convened for the service of the said College full power & Authority from time to time to nominate & appoint all other Officers & Ministers which they shall think convenient & necessary for the service of the said College not herein particularly named or mention'd which Officers & Ministers we do hereby impower to execute their Offices & Trusts as fully & freely as any of the Officers & Ministers in our Universities or Colleges in our REALM of GREAT BRITAIN lawfully may or ought to do. AND further that the generous Contributors to the support of this design of spreading the knowledge of the only true God and Saviour among the American Savages may from time to time be satisfied that their liberalities are faithfully disposed of in the best manner for that purpose & that others may in future time be encouraged in the exercise of the like liberality for promoting the same pious design it shall be the duty of the President of the said Dartmouth College & of his Successors annually or as often as he shall be thereunto desired or required to transmit to the Right honorable, honorable & worthy Gentlemen of the Trust in England before mentioned a faithful account of the improvement & disbursements of the several Sums he shall receive from the Donations & bequests made in England through the hands of said Trustees & also advise them of the general plans

laid and prospects exhibited as well as a faithful account of all remarkable occurrences in order if they shall think expedient that they may be published And this to continue so long as they shall perpetuate their board of Trust & there shall be any of the Indian Natives remaining to be proper Objects of that Charity AND lastly our express Will & pleasure is and we do by these presents for us our heirs and Successors give & grant unto the said Trustees of Dartmouth College & to their Successors forever that these our Letters Patent or the enrollment thereof in the SECRETARY'S Office of our Province of New Hampshire aforesaid shall be good & effectual in the Law to all intents & purposes against us our heirs and Successors without any other License Grant or Confirmation from us our heirs & successors hereafter by the said Trustees to be had & obtained notwithstanding the not writing or misrecital not naming or misnaming the aforesaid Offices Franchises Priviledges Immunities or other the Premises or any of them and notwithstanding a writ of Ad quod Damnum hath not issued forth to enquire of the Premises or any of them before the ensealing hereof any Statute Act Ordinance or Provision or any other matter or thing to the contrary notwithstanding TO HAVE AND TO HOLD ALL & singular the Privileges Advantages Liberties Immunities and all other the Premises herein & hereby granted & given or which are meant mentioned or intended to be herein & hereby given and granted unto them the said TRUSTEES of DARTMOUTH COLLEGE and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent and the publick Seal of our said Province of NEW HAMPSHIRE to be hereunto affixed WITNESS our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our said Province &c^{a}. this THIRTEENTH day of December in the Tenth year of our Reign and in the year of our Lord one thousand seven hundred and Sixty nine.

By his Excellency's Command
with advice of Council

THEODORE ATKINSON, Sec'y

Province of New Hampshire Decembr 18th 1769.
Recorded in the book of Charters
Lib: 4° Fol. 22 to 23 both inclusive.

Per

THEODORE ATKINSON, SEC'Y

JOHN WENTWORTH.

HISTORICAL NOTE

DARTMOUTH COLLEGE is the outgrowth of a school which the Reverend Eleazer Wheelock opened in his home at Lebanon, Conn., December 18, 1754, for the Christian education of Indian youth. The school was known as Moor's Indian Charity School, so named from Joshua Moor, who contributed a house and two acres of land.

Funds for the maintenance of the school were received from various sources, — from private individuals, from the General Courts of Massachusetts Bay and of New Hampshire, and from Great Britain, where the enterprise had awakened the deepest interest. From the latter source an endowment was secured, chiefly through the efforts of Samson Occom, the Indian preacher, one of Dr. Wheelock's students, who was commissioned to make a tour of England and Scotland for this purpose in 1765. The sum of ten thousand pounds was thus raised, and committed to the charge of a board of trustees with the Earl of Dartmouth at its head. As the result of this endowment it was determined by Dr. Wheelock to enlarge the purpose of the school especially to reach "a greater proportion of English youth," and to change its location. Various proposals for a site were made, but after careful investigation the site chosen was the township of Hanover, in the region of Cowas or Coös, in the province of New Hampshire. Apart from the nearness of this site to the Canadian Indians, the determining reason for the choice seems to have been the attractiveness of the location, and the fact that it was the natural center of "more than two hundred towns, chartered, settled, or about to be settled." Removal to the Province of New Hampshire also gave the assurance of a charter, which it had thus far been difficult to obtain.

The draft of the charter prepared by Dr. Wheelock received important modifications from the Governor of the Province, John Wentworth. In particular he rejected the suggestion of a coördinate board of trustees in Great Britain; he gave to the college the name of Lord Dartmouth, its most active patron in Great Britain, although Wheelock had proposed to the Governor to call it by the name of Wentworth; and instead of incorporating it as a "school" or "academy," he

adopted a hint from Wheelock's postscript and made it a "college." The first board of trustees consisted of the Governor with three of his council, the speaker of the New Hampshire House of Representatives, one member of the Connecticut Colonial government, and six Connecticut clergymen selected by Dr. Wheelock.

Dr. Wheelock was elected president of the college, with Mr. Bezaleel Woodward, a graduate of Yale in 1764, as his associate. The first class of four students was graduated in 1771, the Commencement being attended by the Governor of the Province of New Hampshire and a company of gentlemen from Portsmouth, who made their way in part through almost trackless forests.

Two events in the early history of the college materially affected its character and growth. First, the gradual withdrawal of the support of its patrons in Great Britain, whose interest lay chiefly in the education of Indians; second, the lawsuit between the college and the state of New Hampshire for the control of the college, which resulted in a final decision by the Supreme Court of the United States in favor of the Trustees of Dartmouth College. The decision in "The Dartmouth College Case" was rendered in February, 1819. Since the reëstablishment of the college by this decision, its history has followed the general course of educational progress in New England.

Other institutions have from time to time been associated with or incorporated into the college.

Moor's Indian Charity School was made an independent institution when the college was founded. The school was maintained as late as 1849. It still has a legal existence with the title — "The President of Moor's Charity School." The trustees are the same in person with those of the college, though forming a separate corporation.

The Dartmouth Medical School dates from the establishment in 1798 of a professorship of medicine in the college, first filled by Dr. Nathan Smith, who was instrumental in its establishment. The school is under the general control of the Trustees of Dartmouth College, by which body degrees are conferred, but the management of its affairs is committed to the Medical Faculty. Associated with the Medical College is the Mary Hitchcock Hospital (1893), the memorial gift of Hiram Hitchcock, Esq., of Hanover.

The Chandler School of Science and the Arts, established in 1851 by a resolution of the trustees, in acceptance of a sum bequeathed to them in trust by Abiel Chandler, Esq., "for the establishment and support of a permanent department or school of instruction in the col-

lege, in the practical and useful arts of life," was more formally incorporated into the College by the joint action of the Trustees of the College and the Visitors of the Chandler School in 1893, and is now known as the Chandler Scientific Course in the College, leading to the degree of B.S.

The Thayer School of Civil Engineering, established in 1867 by the bequest of General Sylvanus Thayer, Class of 1807, is essentially a graduate school, covering a course of two years, and conferring the degree of Civil Engineer. The funds of the School are in charge of the Trustees of the College; otherwise its affairs are managed by a board of overseers, which is a close corporation.

The Amos Tuck School of Administration and Finance, established in 1900 by Mr. Edward Tuck, Class of 1862, as a memorial to his father, Honorable Amos Tuck, Class of 1835, a Trustee of the College, 1857 to 1866, is also a graduate school covering a course of two years. It is the object of the School to train college graduates who desire to engage in affairs rather than to enter the professions. The School is administered by the Trustees of the College.

The presidency of the college has been held as follows:

Eleazer Wheelock, 1769–1779.
John Wheelock, 1779–1815.
Francis Brown, 1815–1820.
Daniel Dana, 1820–1821.
Bennett Tyler, 1821–1828.
Nathan Lord, 1828–1863.
Asa Dodge Smith, 1863–1877.
Samuel Colcord Bartlett, 1877–1892.
William Jewett Tucker, 1893–.

DARTMOUTH COLLEGE

TRUSTEES OF DARTMOUTH COLLEGE

AND OF MOOR'S CHARITY SCHOOL

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.

WILLIAM MARTIN CHASE, LL.D. . . . *Concord, N. H.*
Clerk of the Board.

HIS EXCELLENCY CHARLES MILLER FLOYD, A.M. (*ex-officio*)
Manchester, N. H.

FRANK SHERWIN STREETER, A.M. . . *Concord, N. H.*

CHARLES FREDERICK MATHEWSON, LL.B., A.M.
New York, N. Y.

BENJAMIN AMES KIMBALL, A.M. . . . *Concord, N. H.*

JOHN ROBIE EASTMAN, A.M., PH.D. . . *Andover, N. H.*

HENRY HOYT HILTON, A.M. . . . . *Chicago, Ill.*

FRANCIS BROWN, D.D., D.LITT. (OXON.) *New York, N. Y.*

SAMUEL LELAND POWERS, A.M. . . . *Newton, Mass.*

ROBERT MOORE WALLACE, A.M. . . . *Milford, N. H.*

LEWIS PARKHURST, A.M. . . . . *Winchester, Mass.*

EX OFFICIO TRUSTEES OF THE COLLEGE IN RELATION TO FUNDS GIVEN BY THE STATE OF NEW HAMPSHIRE

COUNCILLORS

HON. STEPHEN S. JEWETT . . . . . *Laconia, N. H.*
HON. WILLIAM H. C. FOLLANSBY . . . . . *Exeter, N. H.*
HON. HERBERT B. VIALL . . . . . *Keene, N. H.*
HON. JAMES D. UPHAM . . . . . *Claremont, N. H.*
HON. FRANK P. BROWN . . . . . *Whitefield, N. H.*

THE PRESIDENT OF THE SENATE

HON. JOHN SCAMMON . . . . . *Exeter, N. H.*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

HON. BERTRAM ELLIS . . . . . *Keene, N. H.*

THE CHIEF JUSTICE OF THE SUPREME COURT

HON. FRANK N. PARSONS . . . . . *Franklin, N. H.*

VISITORS ON THE CHANDLER FOUNDATION

DAVID HERBERT ANDREWS, A.M. . . . *Newton Centre, Mass.*

ROBERT GORDON PIKE, A.M. . . . . *Dover, N. H.*

OVERSEERS OF THAYER SCHOOL

THE PRESIDENT OF DARTMOUTH COLLEGE.

GEN. HENRY LARCOM ABBOT, LL.D. . *Cambridge, Mass.*

JONATHAN PARKER SNOW, C.E. . . . . *Boston, Mass.*

PROF. GUSTAV JOSEPH FIEBEGER . . *West Point, N. Y.*

OTIS ELLIS HOVEY, C.E. . . . . *New York, N. Y.*

CHARLES PARKER CHASE, A.M. . . . . *Hanover, N. H.*
Treasurer of the College

ERNEST MARTIN HOPKINS, A.M. . . . . *Hanover, N. H.*
Secretary of the College

STANDING COMMITTEES OF THE TRUSTEES

COMMITTEE ON FINANCE,
Messrs. Kimball, Chase, Parkhurst.

ON INSTRUCTION AND EQUIPMENT,
Messrs. Eastman, Brown, Wallace, Hilton.

ON BUILDINGS AND IMPROVEMENTS,
Messrs. Streeter, Mathewson, Powers.

ON DEGREES,
Messrs. Mathewson, Eastman, Brown.

ON RELATION OF COLLEGE TO STATE,
Messrs. Streeter, Kimball, Wallace.

ON RELATION OF COLLEGE TO ALUMNI,
Messrs. Powers, Mathewson, Hilton.

ON LEGAL MATTERS,
Messrs. Chase, Streeter, Powers.

The President of the College is a member *ex officio* of the Committee on Finance, on Instruction and Equipment, on Buildings and Improvements, and on Degrees.

ADMINISTRATIVE OFFICERS

THE COLLEGE

PRESIDENT — William Jewett Tucker — Administration Building, 10.30 to 11.30 A.M., each week day.

TREASURER — Charles Parker Chase — Bank Building, 9.30 to 11.30 A.M., each week day, 1.30 to 2.30 P.M., each week day except Saturday.

SECRETARY OF THE COLLEGE — Ernest Martin Hopkins — Administration Building, 9 A.M. to 12 M., each week day, 1.30 to 3.00 P.M., each week day except Saturday.

DEAN OF ACADEMIC FACULTY — Charles Franklin Emerson — Administration Building, 9.30 to 11.30 A.M., each week day; other times by appointment.

REGISTRAR — Howard Murray Tibbetts — Administration Building, 10 to 11.30 A.M., each week day, 1.30 to 2.30 P.M., each week day except Saturday.

CHAIRMAN OF COMMITTEE ON GRADUATE INSTRUCTION — William Patten — 15 Webster Ave.

LIBRARIAN — Marvin Davis Bisbee — Wilson Hall, 9 A.M. to 12 M., 1 to 5 P.M., each week day.

MEDICAL DIRECTOR — Howard Nelson Kingsford — Bank Building, 7 to 8 P.M., Tuesdays and Thursdays; other week days 4.30 to 6 P.M.

SUPERINTENDENT OF BUILDINGS — Edgar Hayes Hunter — Administration Building, 8 A.M. to 12 M., each week day, 1 to 5 P.M., each week day except Saturday.

ARTHUR PERRY FAIRFIELD, A.B., *Manager of the Hanover Inn and Comptroller of the Dartmouth Dining Association.*

AZRO KARL SKINNER, A.B., *Secretary of the Dartmouth Christian Association.*

HALSEY CHARLES EDGERTON, B.S., M.C.S., *Auditing Clerk.*

HARRY GAY FLETCHER, *Assistant Superintendent of Buildings.*
FRED FOSTER PARKER, C.E., *Assistant to the Superintendent of Buildings.*
HARRY RICHMOND WELLMAN, A.B., *Supervisor of College Dormitories.*
CHESTER TENNEY WOODBURY, A.B., *Assistant in the Dean's Office.*

MEDICAL SCHOOL

DEAN — William Thayer Smith — 9 School St., 1.30 P.M. and 7 P.M., daily.

SECRETARY — Gilman DuBois Frost — 13 E. Wheelock St., 1 P.M., and 7 P.M.

THAYER SCHOOL

DIRECTOR — Robert Fletcher — Thayer Building, 10 A.M. to 12 M., each week day.

TUCK SCHOOL

DIRECTOR — Harlow Stafford Person — Room A, Tuck School, 9 to 10 A.M., daily except Saturday.

SUMMER SCHOOL

DIRECTOR — Thomas Wilson Dorr Worthen — 11 Webster Ave.

THE ACADEMIC FACULTY.[1]

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT. 6 Occom Ridge.

JOHN KING LORD, PH.D., LL.D., ACTING PRESIDENT *of the Faculty.* 37 College St.

CHARLES FRANKLIN EMERSON, A.M., DEAN *of the Academic Faculty.* 30 N. Main St.

CHARLES HENRY HITCHCOCK, PH.D., LL.D., *Hall Professor of Geology.* (Retired on Carnegie Foundation.)

GABRIEL CAMPBELL, M.PD., D.D., *Stone Professor of Intellectual and Moral Philosophy.* 29 N. Main St.

JOHN KING LORD, PH.D., LL.D., *Daniel Webster Professor of the Latin Language and Literature.* 37 College St.

FRANK ASBURY SHERMAN, M.S., *Professor of Mathematics on the Chandler Foundation.* 37 N. Main St.

CHARLES FRANCIS RICHARDSON, PH.D., *Winkley Professor of the English Language and Literature.* 6 School St.

MARVIN DAVIS BISBEE, B.D., A.M., *Librarian and Professor of Bibliography.* 11 W. Wheelock St.

THOMAS WILSON DORR WORTHEN, A.M., *Cheney Professor of Mathematics.* 11 Webster Ave.

EDWIN JULIUS BARTLETT, A.M., M.D., *New Hampshire Professor of Chemistry.* 8 W. Wheelock St.

JAMES FAIRBANKS COLBY, A.M., LL.D., *Parker Professor of Law and Political Science.* 2 Elm St.

[1] Arranged, with the exception of the President, Acting President, and Dean, according to Academic Seniority.

JOHN VOSE HAZEN, C.E., *Woodman Professor of Civil Engineering and Graphics on the Chandler Foundation.*
33 N. Main St.

CHARLES DARWIN ADAMS, PH.D., *Lawrence Professor of the Greek Language and Literature.* 1 N. Park St.

CHARLES HENRY MORSE, MUS. BAC., *Musical Director.*
The Hanover Inn.

DAVID COLLIN WELLS, A.M., *Professor of Sociology.*
26 Occom Ridge.

ROBERT LONGLEY TAYLOR, PH.D., *Assistant Professor of French.* Norwich, Vt.

WILLIAM PATTEN, PH.D., *Professor of Biology (Zoölogy).*
15 Webster Ave.

GEORGE DANA LORD, A.M., *Professor of Classical Archæology, and Associate in Greek.* 46 College St.

HERBERT DARLING FOSTER, A.M., *Professor of History.*
(On leave of absence for the year.)

WARREN AUSTIN ADAMS, PH.D., *Professor of German.*
16 Occom Ridge.

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.* 13 Webster Ave.

LOUIS HENRY DOW, A.M., *Professor of French.* 2 Occom Ridge.

HARRY EDWIN BURTON, PH.D., *Professor of Latin.*
5 Occom Ridge.

JOHN HIRAM GEROULD, PH.D., *Assistant Professor of Biology (Zoölogy).* 10 School St.

GEORGE RAY WICKER, PH.D., *Assistant Professor of Economics.*
Lyme Road.

JESSE SIDDALL REEVES, PH.D., *Assistant Professor of Political Science.* 4 Webster Ave.

FRANK HAIGH DIXON, PH.D., *Professor of Economics.*
24 Occom Ridge.

GORDON FERRIE HULL, PH.D., *Appleton Professor of Physics.* 4 W. Wheelock St.

FRANK ARTHUR UPDYKE, PH.D., *Assistant Professor of Political Science.* 7 N. Park St.

ERNEST FELIX LANGLEY, A.M., *Assistant Professor of the Romance Languages (French and Italian).* 27 E. Wheelock St.

ASHLEY KINGSLEY HARDY, PH.D., *Assistant Professor of German and Instructor in Old English.* 4 Clement Road.

GEORGE RICHARD LYMAN, PH.D., *Assistant Professor of Biology (Botany).* 3 Elm St.

COLIN CAMPBELL STEWART, PH.D., *Brown Professor of Physiology.* 14 Occom Ridge.

HERMAN HARRELL HORNE, PH.D., *Professor of Philosophy.* 5 N. Park St.

RICHARD WELLINGTON HUSBAND, A.M., *Assistant Professor of Classical Philology.* 9 N. Park St.

NORMAN EVERETT GILBERT, PH.D., *Assistant Professor of Physics.* 9 Webster Ave.

CRAVEN LAYCOCK, A.B., *Assistant Professor of Oratory on the Evans Foundation.* 18 Occom Ridge.

SIDNEY BRADSHAW FAY, PH.D., *Assistant Professor of History.* 3 Clement Road.

PRESCOTT ORDE SKINNER, A.M., *Assistant Professor of the Romance Languages (French and Spanish).* 24 N. Main St.

WILLIAM KILBORNE STEWART, A.M., *Assistant Professor of German.* 1 Occom Ridge.

CHARLES ERNEST BOLSER, PH.D., *Assistant Professor of Chemistry.* 15 E. Wheelock St.

JOHN MERRILL POOR, PH.D., *Assistant Professor of Astronomy.* 20 Occom Ridge.

GEORGE BENSON WESTON, A.M., *Instructor in the Romance Languages (French and Spanish).*

(On leave of absence for the year.)

HOMER EATON KEYES, B.L., *Assistant Professor of Modern Art, and Instructor in English.* Rope Ferry Road.

CHARLES ALBERT PROCTOR, A.B., *Assistant Professor of Mathematics.*

(On leave of absence for the year.)

EUGENE FRANCIS CLARK, A.M., *Assistant Professor of German.* 27 N. Main St.

LEON BURR RICHARDSON, A.M., *Instructor in Chemistry.* 11 N. Park St.

JULIUS ARTHUR BROWN, A.M., B.S. (Oxon.), *Assistant Professor of Physics.* 4 Webster Ave.

ERNEST BRADLEE WATSON, A.B., *Assistant Professor of English.* 4 W. Wheelock St.

JAMES WALTER GOLDTHWAIT, PH.D., *Assistant Professor of Geology.* 21 N. Main St.

RALPH MARTIN BARTON, A.B., *Instructor in Mathematics.* 48 College St.

JOHN WILLIAM BOWLER, M.D., *Professor of Hygiene and Physical Education, and Director of the Gymnasium.* 22 Occom Ridge.

LEMUEL SPENCER HASTINGS, A.B., B.D., *Instructor in English.* Norwich, Vt.

EUGENE HOWARD BABBITT, A.B., *Substitute in German for* 1908–1909. (*Recently Professor of Modern Languages in the University of the South.*) 41 S. Main St.

ALBERT HARP LICKLIDER, PH.D., *Instructor in English.* 36 N. Main St.

AUGUSTUS HUNT SHEARER, PH.D., *Instructor in History.* 4 W. Wheelock St.

CHARLES RAMSDELL LINGLEY, A.M., *Instructor in History.* 15 E. Wheelock St.

ERNEST ROY GREENE, A.M., *Instructor in French and Spanish.* 8 W. South St.

FLETCHER BRIGGS, A.M., *Instructor in German.* 4 W. Wheelock St.

ARTHUR HOUSTON CHIVERS, A.M., *Instructor in Biology.* 15 E. Wheelock St.

FRANK COCHRANE MOORE, A.B., *Instructor in Mathematics.* 4 W. Wheelock St.

LELAND GRIGGS, PH.D., *Assistant Instructor in Biology.* 11 Pleasant St.

ALBERT DAVIS, PH.D., *Instructor in English.* 3 School St.

ARTHUR HERBERT BASYE, A.M., *Instructor in History.* 30 N. Main St.

CHARLES PHILLIPS HUSE, PH.D., *Instructor in Economics.* 30 N. Main St.

PAUL NIXON, A.M., *Instructor in Greek and Latin.* 36 N. Main St.

EDMUND EZRA DAY, A.M., *Instructor in Economics.* (On leave of absence for the year.)

HENRY MORSE WELLS, A.B., *Assistant Instructor in French.* 4 W. Wheelock St.

RALPH DENNISON BEETLE, A.B., *Assistant Instructor in Mathematics.* Norwich, Vt.

JOHN WILLIAM EDWARD GLATTFELD, B.S., *Assistant Instructor in Chemistry.* Davison Block.

RUPERT EARLE LORING KITTREDGE, A.M., *Assistant Instructor in French.* 4 W. Wheelock St.

ROY MULLINS, C.E., *Assistant Instructor in Graphics.* 44 Wheeler Hall.

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PERCY BARTLETT, A.B., M.D., *Instructor in Anatomy.* (Medical School) 35 College St.

CHARLES ARTHUR HOLDEN, B.S., C.E., *Professor of Civil Engineering.* (Thayer School) 3 Occom Ridge.

FRANK EUGENE AUSTIN, B.S., *Professor of Electrical Engineering.* (Thayer School) 11 S. Park St.

HOWARD NELSON KINGSFORD, A.M., M.D., *Professor of Pathology and Bacteriology.* (Medical School) 6 Clement Road.

HARLOW STAFFORD PERSON, PH.D., *Professor of Commerce and Industry.* (Tuck School) 15 N. Park St.

WARREN MILTON PERSONS, B.S., *Assistant Professor of Finance.* (Tuck School) 21 N. Main St.

GEORGE SELLERS GRAHAM, B.L., M.D., *Instructor in Pathology.* (Medical School) Bridgman Block.

WILLIAM HENRY MURRAY, A.B., *Instructor in French, German, and Spanish.* (Tuck School) 41½ S. Main St.

WILLIAM RENSSELAER GRAY, B.L., M.C.S., *Assistant Professor of Accounting.* (Tuck School) 23 Allen St.

FREDERICK WILLIAM WELCH, B.S., C.E., *Instructor in Engineering and Graphics.* (Thayer School) 34 N. Main St.

LIBRARIAN AND ASSISTANTS

MARVIN DAVIS BISBEE, B.D., A.M., *Librarian and Professor of Bibliography.* 11 W. Wheelock St.

ETTA MATTOCKS NEWELL, *Assistant Libarian.* The Hanover Inn.

HAROLD GODDARD RUGG, A.B., *Library Accountant and Secretary.* 40 S. Main St.

ORLANDO CHESTER DAVIS, A.B., *Library Cataloguer.* 4 Wentworth St.

ARTHUR HOWLAND LEAVITT, A.B., *Superintendent of Reference Rooms.* 5 W. South St.

STANDING COMMITTEES OF THE ACADEMIC FACULTY

NOMINATIONS — Professors C. D. Adams (chairman), Hazen, Fay.

ADMINISTRATION — The President, the Acting President, the Dean, Professor Wells (Senior class-officer), Professor Horne (Junior class-officer), Professor C. D. Adams (Sophomore class-officer), Professor Burton (Freshman class-officer).

ADMISSION — Professors Sherman (chairman), Taylor, W. A. Adams, Gilbert, Fay, the Dean (*ex officio*).

INSTRUCTION — Professors Emery (chairman), Worthen, Gerould, Wicker, Langley, Husband, the Dean (*ex officio*).

LIBRARY — Professors C. F. Richardson (chairman), Bisbee, G. D. Lord, Reeves, Hardy, Fay, Skinner, Poor, Mr. L. B. Richardson.

ATHLETICS — Professors Bartlett (chairman), Laycock, Bolser.

NON-ATHLETIC ORGANIZATIONS — Professors Dow (chairman), Poor, Person, Keyes, Brown.

GRADUATE INSTRUCTION — Professors Patten (chairman), Campbell, Taylor, G. D. Lord, Hull, Updyke, Person.

REGULATIONS — Professors Dixon (chairman), Reeves, Lyman, Stewart, the Dean (*ex officio*).

COMMENCEMENT — Professors Laycock (chairman), Wells, Hull, Persons, Watson.

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WILLIAM THAYER SMITH, M.D., LL.D., DEAN, *Professor Emeritus of Physiology, and Professor of Clinical Surgery.* 9 School St.

GILMAN DUBOIS FROST, A.M., M.D., SECRETARY *and Professor of Anatomy.* 13 E. Wheelock St.

HENRY MARTYN FIELD, A.M., M.D., *Professor Emeritus of Therapeutics.* Pasadena, Cal.

PHINEAS SANBORN CONNER, M.D., LL.D., *Professor Emeritus of Surgery.* 215 W. 9th Street, Cincinnati.

CHARLES BEYLARD GUERARD DE NANCRÈDE, M.D., LL.D., *Professor of Surgery and Clinical Surgery.* Ann Arbor, Mich.

EDWIN JULIUS BARTLETT, A.M., M.D., *Professor of Chemistry (Academic department).* 8 W. Wheelock St.

TILGHMAN MINNOUR BALLIET, A.M., M.D., *Professor of Therapeutics.* 3709 Powelton Ave., Philadelphia.

WILLIAM PATTEN, PH.D., *Professor of Biology (Zoölogy). (Academic department).* 15 Webster Ave.

JOHN MARTIN GILE, A.M., M.D., *Professor of the Science and Practice of Medicine.* 1 Maynard St.

COLIN CAMPBELL STEWART, PH.D., *Brown Professor of Physiology.* 14 Occom Ridge.

HOWARD NELSON KINGSFORD, A.M., M.D., *Professor of Pathology and Bacteriology.* 6 Clement Road.

GRANVILLE PRIEST CONN, A.M., M.D., *Professor of Hygiene.* Concord, N. H.

EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.* 419 Boylston St., Boston.

GEORGE ADAMS LELAND, A.M., M.D., *Professor of Otolaryngology.* 354 Commonwealth Ave., Boston.

MYLES STANDISH, A.M., M.D., *Professor of Ophthalmology.* 6 St. James Ave., Boston.

JAMES RIDDLE GOFFE, M.D., *Professor of Gynecology.* 616 Madison Ave., New York.

JOHN OSBORN POLAK, M.S., M.D., *Professor of Obstetrics.* 287 Clinton Ave., Brooklyn, N. Y.

HARVEY PARKER TOWLE, A.B., M.D., *Professor of Dermatology.* 453 Marlborough St., Boston.

ERNEST HENRY WHEELER, M.D., *Lecturer on Tropical Medicine.* Augusta, Me.

GEORGE BURGESS MAGRATH, M.D., *Lecturer on Legal Medicine.* 274 Boylston St., Boston.

PERCY BARTLETT, A.B., M.D., *Instructor in Anatomy.* 35 College St.

CHARLES ERNEST BOLSER, PH.D., *Assistant Professor of Chemistry (Academic department).* 15 E. Wheelock St.

LEON BURR RICHARDSON, A.M., *Instructor in Chemistry (Academic department).* 11 N. Park St.

GEORGE SELLERS GRAHAM, B.L., M.D., *Instructor in Pathology and Bacteriology.* Bridgman Block.

ARTHUR HOUSTON CHIVERS, A.M., *Instructor in Biology (Botany, Academic department).* 15 E. Wheelock St.

MARSHALL LOUIS ALLING, B.S., *Demonstrator of Anatomy.* 19 Maple St.

DELEGATES FROM THE NEW HAMPSHIRE MEDICAL SOCIETY

FRANK EVERETT KITTREDGE, M.D., Nashua, N. H.
ARTHUR COWTON HEFFENGER, M.D. Portsmouth, N. H.

DELEGATES FROM THE VERMONT MEDICAL SOCIETY

CHARLES SOLOMON CAVERLY, M.D., Rutland, Vt.
HENRY CRAIN TINKHAM, M.D. Burlington, Vt.

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JOHN VOSE HAZEN, C.E., *Professor of Civil Engineering (Academic department).* 33 N. Main St.

CHARLES ARTHUR HOLDEN, C.E., *Professor of Civil Engineering.* 3 Occom Ridge.

FRANK EUGENE AUSTIN, B.S., *Professor of Electrical Engineering.* 11 S. Park St.

FREDERICK WILLIAM WELCH, C.E., *Instructor in Engineering.* 34 N. Main St.

JOHN HOFFMAN DUNLAP, C.E., *Field Assistant in Surveying (July–September).*

ROY MULLINS, C.E., *Field Assistant in Surveying (July–September).*

SPECIAL LECTURERS

1908–1909

PHILIP WHEELOCK AYRES, PH.D., *Forester of the Society for the Protection of New Hampshire Forests.* Concord, N. H.

SAMUEL JULIAN LORD, C.E., *City Engineer.* Manchester, N. H.

EDGAR HAYES HUNTER, C.E., *Superintendent of Buildings, Dartmouth College.*

FRED CASWELL STANTON, C.E., *Assistant Engineer on Panama Canal Construction.*

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WILLIAM RENSSELAER GRAY, B.L., M.C.S., *Assistant Professor of Accounting*. ACCOUNTING AND COMMERCIAL MATHEMATICS.

DAVID COLLIN WELLS, A.B. (*Professor of Sociology in Dartmouth College*). NATIONAL INDUSTRIAL EFFICIENCY.

FRANK HAIGH DIXON, PH.D. (*Professor of Economics in Dartmouth College*). ORGANIZATION AND ADMINISTRATION OF CORPORATIONS, CORPORATION FINANCE, AND TRANSPORTATION.

JESSE SIDDALL REEVES, PH.D., Attorney-at-Law (*Assistant Professor of Political Science in Dartmouth College*). COMMERCIAL LAW, MARITIME LAW, INTERNATIONAL LAW, AND DIPLOMACY.

FRANK ARTHUR UPDYKE, PH.D. (*Assistant Professor of Political Science in Dartmouth College*). AMERICAN GOVERNMENT AND GOVERNMENT OF DEPENDENCIES.

CHARLES PHILLIPS HUSE, PH.D. (*Instructor in Economics in Dartmouth College*). MONEY AND BANKING.

SPECIAL LECTURERS

1908–1909

ALFRED LAWRENCE RIPLEY, A.M., Vice-President, State National Bank, Boston, Mass.

JAMES LOGAN, General Manager, United States Envelope Company, Worcester, Mass.

CHARLES H. JONES, A.M., President, Commonwealth Shoe and Leather Company, Boston, Mass.

JOSEPH AREND DEBOER, A.M., President, National Life Insurance Company, Montpelier, Vt.

FRANCIS B. SEARS, Vice-President, National Shawmut Bank, Boston, Mass.

SERENO S. PRATT, Editor, *The Wall Street Journal*, New York City.

COLLIN ARMSTRONG, Editor, *The Wall Street Summary*, New York City.

THOMAS FRANCIS WOODLOCK, A.M., of S. N. Warren & Co., New York City.

CHARLES C. HOYT, of Farnsworth, Hoyt, & Co., Boston, Mass.

FRANCIS W. LANE, formerly Editor-in-Chief, *The Railway Age*, New York City.

MONTGOMERY ROLLINS, Author of *Government Bond Values*, *Laws Regulating the Investment of Bank Funds*, etc., Boston, Mass.

CHARLES T. CAHILL, of The United Shoe Machinery Co., Boston, Mass.

JAMES SHIRLEY EATON, A.M., of Mackay & Co., New York City.

JONATHAN THAYER LINCOLN, A.B., of Kilburn, Lincoln, & Co., Fall River, Mass.

SUMNER B. PEARMAIN, of Pearmain & Brooks, Boston, Mass.

PHILIP W. AYRES, PH.D., Forester of the Society for The Protection of New Hampshire Forests.

WILDER DWIGHT QUINT, A.B., Journalist, Boston, Mass.

WILLIAM M. WHERRY, JR., A.B., Attorney-at-Law, Wherry & Morgan, New York City.

LEMUEL G. HODGKINS, Examiner, Massachusetts Insurance Department, Boston, Mass.

JAMES ROBERT MERRIAM, A.B., M.C.S., Bond Market Editor, *The Wall Street Journal*, New York City.

RALPH H. CARLETON, A.B., M.C.S., General Book-keeper to the General Auditor, C., R. I. & P. Ry. Co.

STUDENTS

FELLOW

Childs, Francis Lane, A.B. 1906, *Cambridge, Mass.*

GRADUATE STUDENTS

Name	Residence	Room
Alden, Alanson Gilbert A.B. 1908. German, English.	*Neshanic, N. J.*	40 S. Main St.
Batchelder, Paul Mason A.B. 1908. Physics: *Assistant in Laboratory.*	*Portsmouth, N. H.*	V Wilder Hall
Chandler, Albert Richard A.B. 1908. Philosophy, German.	*Norwich, Conn.*	3 Lebanon St.
Coggins, Calvin Lester B.S., R. I. Coll. Agric. and Mech. Arts, 1907. Physics. *Assistant in Laboratory.*	*Sharon, Mass.*	X Wilder Hall
Pfeiffer, Harry Nelson A.B. New York Univ., 1899. Philosophy, Education.	*Meriden, N. H.*	5 College St.
Sherburne, Raymond Warren A.B. 1908. Latin.	*Tyngsboro, Mass.*	5 W. South St.
Smith, Morris Kellogg A.B. 1907. Physiology.	*Hanover, N. H.*	9 School St.
Stetson, Harlan True PH.B. Brown, 1908. Physics: *Assistant in Laboratory.*	*Newton Centre, Mass.*	X Wilder Hall
Tileston, Roland Ray A.B. 1907. Physics: *Assistant in Laboratory.*	*Randolph, Mass.*	W. Wilder Hall
Worthen, Thacher Washburn A.B. 1907. Physiology.	*Hanover, N. H.*	11 Webster Ave.

NON-RESIDENT GRADUATE STUDENTS

Name	Residence
Clow, Arlington Ingalls	*Oberlin, Kan.*
A.B. 1905. German, French.	
Dunlap, Roger Allen	*Paterson, N. J.*
A.B. 1900. English.	
Dunn, Morley Knight	*Rockville Centre, N. Y.*
A.B. 1903. English.	
Farley, George Lewis	*New Haven, Conn.*
B.S. 1898. Education.	
Gentleman, Fred William	*Lynn, Mass.*
A.B. 1901. Mathematics.	
Howe, Frank Martin	*Meriden, N. H.*
A.B. 1900. Mathematics.	
Howard, William Hanson, Jr.	*Lowell, Mass.*
A.B. 1902. English.	
Lillard, Walter Houston	*Andover, Mass.*
B.S. 1905. English.	
Moulton, Sherman Roberts	*Burlington, Vt.*
A.B. 1898. Law, Political Science.	
Musgrove, Eugene Richard	*Worcester, Mass.*
A.B. 1905. English, Education.	
Oliphant, Harold Duncan	*Washington, Conn.*
A.B. 1907. English.	
Powers, Florence May	*Brooklyn, N. Y.*
A.B. Adelphi, 1906. English, Education.	
Ruggles, Arthur Hiler	*Jamaica Plain, Mass.*
A.B. 1902. M. D. Harvard, 1906. Psychology.	
Scott, Frank Arthur	*Holliston, Mass.*
A.B. Harvard, 1903. Chemistry.	
Sibley, Homer Taft	*North Newport, N. H.*
A.B. 1907. Greek.	
Thomas, Helen	*Dorchester Centre, Mass.*
A.B. Wellesley, 1905. English, Education.	
Williams, Lester Alonzo	*Laconia, N. H.*
A.B. 1903. Education.	
Wilson, Earle Elwin	*Wells River, Vt.*
A.B. 1903. Education.	

UNDERGRADUATES

SENIORS

Name	Residence	Room
Abbott, Royal Kilburn	*Dorchester, Mass.*	24 Richardson
Adams, George Ross	*Newtonville, Mass.*	2 Proctor
Alvord, Russell Owen	*Winsted, Conn.*	Ψ Υ House
Ashworth, Wiiliam	*Lebanon, N. H.*	18 Thornton
Atwater, Collins	*Westfield, Mass.*	18 Maple St.
Atwood, William Thompson	*Ware, Mass.*	41 New Hampshire
Austin, Frank Stearns	*Lynn, Mass.*	8 New Hampshire
Avery, Philip Stearns	*Nashua, N. H.*	Davison Block
Ayer, Benjamin	*Belmont, Mass.*	34 Wheeler
Bachelder, Everett Edward	*Pittsfield, N. H.*	8 Thornton
Baine, George Fredson	*Clinton, Mass.*	1 Richardson
Bales, Harold Campbell	*Wilton, N. H.*	1 Thornton
Bankart, Henry Reginald	*Bridgton, Me.*	C. & G. House
Barstow, Benjamin	*Kingston, Mass.*	2 New Hubbard
Bartlett, Hollis Manning	*Haverhill, Mass.*	3 College St.
Bates, Albert Wood	*Middleboro, Mass.*	11 Wentworth
Bedell, Arthur Sidney	*Brooklyn, N. Y.*	23 Wentworth
Beebe, John Cleaveland	*Hampden, Mass.*	16 Thornton
Bell, Samuel Kent	*Exeter, N. H.*	Κ Κ Κ House
Bell, Thomas	*Exeter, N. H.*	8 Thornton
Bird, Francis Henry	*Wellesley Hills, Mass.*	9 Thornton
Blake, Charles Clifton	*Sandy Hill, N. Y.*	4 So. Fayerweather
Blake, Clifford Austin	*Westboro, Mass.*	Κ Κ Κ House
Bradley, Delmont Rockwood	*Gloucester, Mass.*	8 New Hampshire
Brett, Chester Snow	*Brookline, Mass.*	6 Crosby
Brock, Fred Sumner	*Rochester, N. H.*	11 Wentworth
Brown, Ogden	*St. Louis, Mo.*	C. & G. House
Brown, Walter Edward	*Brimfield, Mass.*	32 Reed
Bull, Wilbur Irving	*Billerica, Mass.*	16 So. Fayerweather
Burbank, Harold Hitchins	*Calais, Me.*	11 Sanborn
Burns, George Thomas	*Ayer, Mass.*	40 Massachusetts
Burpee, Benjamin Prescott	*Manchester, N. H.*	22 So. Fayerweather
Burroughs, Harry Eugene	*Somerville, Mass.*	15 Crosby
Buxton, Arthur Leet	*Springfield, Mass.*	10 College St.
Carroll, Frederic Aloysius	*Worcester, Mass.*	Κ Κ Κ House
Cartland, Charles Wallingford	*Dover, N. H.*	20 So. Fayerweather
Caverly, Harley Tuttle	*Rutland, Vt.*	Κ Κ Κ House
Chappelear, Edgar	*Zanesville, O.*	Δ Τ Δ House
Childs, John Roland	*Evanston, Ill.*	6 Massachusetts
Childs, John Warren	*Henniker, N. H.*	41 S. Main St.

Name	Residence	Room
Clark, Harold Symmes	*Auburndale, Mass.*	17 So. Fayerweather
Clement, Ralph Byron	*Chelsea, Mass.*	16 Thornton
Colley, Reginald Hunter	*Rockport, Mass.*	9 Thornton
Cowles, Russell	*Des Moines, Ia.*	Φ Δ Θ House
Cummings, Clarence Edwin	*Beachmont, Mass.*	35 Fayerweather
Cummings, Ralza Milon	*Concord, N. H.*	7 Richardson
Currier, Warren	*Greeley, Colo.*	55 Wheeler
Cushing, John Thayer	*Lakeport, N. H.*	9 W. South St.
Cushman, Ralph Earl	*Burlington, Vt.*	Φ Δ Θ House
Davis, Marshall Freeman	*North Conway, N. H.*	32 New Hampshire
Dean, Lindley Richard	*Charlotte, Vt.*	18 Thornton
Dillingham, Herman Louis	*Milford, Mass.*	Δ K E House
Doe, Arthur Franklin	*Somerville, Mass.*	6 Fayerweather
Dole, Charles Elbert	*Lebanon, N. H.*	26 Wheeler
Dowdall, John Hancock	*Danvers, Mass.*	10 New Hampshire
Dreyfus, Walter Julius Leopold	*New York, N. Y.*	19 Richardson
Dudley, Benjamin Harmon	*Malone, N. Y.*	12 So. Fayerweather
Dunbar, Clarence Eugene	*Manchester, N. H.*	47 Fayerweather
Dwenger, George Henry	*Brooklyn, N. Y.*	25 New Hampshire
Eaton, Robert Byers	*Roxbury, Mass.*	45 Massachusetts
Eaton, Walter Irving	*Brimfield, Mass.*	3 College St.
Erhard, Emile Henri	*Brookline, Mass.*	Δ K E House
Fardy, Thomas Albert	*Randolph, Mass.*	50 New Hampshire
Fearing, William Ingraham	*Newton, Mass.*	21 Richardson
Fisk, Clarence Ames	*Brighton, Mass.*	8 Massachusetts
Fleisher, Horace Teller	*Philadelphia, Penn.*	28 College
Floyd, Harry Rabardy	*Manchester, Mass.*	16 Crosby
Follansbee, Merrill Middleton	*Highland Park, Ill.*	C. & G. House
Ford, Edward Chandler	*Marshfield, Mass.*	16 Crosby
Foss, Harold Richard	*Portland, Me.*	18 No. Fayerweather
French, Bertrand Carr	*Sandwich, Mass.*	Φ Δ Θ House
Gates, Stanley	*Claremont, Cal.*	38 Wheeler
Goodhart, Joseph Alfred	*Randolph, Vt.*	4 So. Fayerweather
Goodrich, Ernest Herman	*Portland, Me.*	31 Wheeler
Goodwin, George Kittredge	*Bethel, Vt.*	4 School St.
Gould, Robert Rutledge	*Portland, Conn.*	46 New Hampshire
Graff, Joseph Rae	*Peoria, Ill.*	Φ Δ Θ House
Graves, Arthur Leslie	*Wells River, Vt.*	Ford Block
Graves, Harvey Wilbur	*Rochester, N. Y.*	Δ K E House
Greenwood, Oliver Parker	*Billerica, Mass.*	22 So. Fayerweather
Griffin, Michael Bernard	*Newmarket, N. H.*	9 W. South St.
Hadden, Arthur Archibald	*Muskegon, Mich.*	48 New Hampshire
Hall, Harold Steward	*Hudson, Mass.*	48 New Hampshire
Hammond, Karl Raymond	*Nashua, N. H.*	X Φ House
Hansbury, John Edward	*Beverly, Mass.*	4 Bartlett

Name	Residence	Room
Hanson, Fred Sumner, Jr.	*Somerville, Mass.*	1 Thornton
Hawes, Herbert Richardson	*Worcester, Mass.*	4 Richardson
Hawley, Jess Barnum	*Silverton, Wash.*	40 Massachusetts
Hazelton, Sidney Channing	*West Medford, Mass.*	35 Fayerweather
Hearne, Alonzo Graham	*Kittery, Me.*	21 Wentworth
Herrick, Arthur Lowell	*Gloucester, Mass.*	42 Wheeler
Hibbard, Hazen Kimball	*Newbury, Vt.*	5 Ford Block
Hill, Albert Lewellyn	*Enfield, N. H.*	12 Lebanon St.
Hilliard, Curtis Morrison	*Braintree, Mass.*	54 New Hampshire
Hilton, Howard Hoyt	*Chicago, Ill.*	25 N. Main St.
Hinckley, George Harris	*Portland, Me.*	29 New Hampshire
Hitchcock, James	*Cambridge, Mass.*	20 Richardson
Holmes, Robert Jameson	*Newton, Mass.*	28 Richardson
Holzer, William Francis	*Arlington, N. J.*	17 Thornton
Hooker, Sanford Berton	*Bradford, Vt.*	24 Richardson
Hough, Philip	*Dover, N. H.*	23 Crosby
Howard, Eliot Remsen	*Hyde Park, Mass.*	22 Sanborn
Howland, Nathaniel Jacob	*New Bedford, Mass.*	Φ Δ Θ House
Hull, Morton	*Chicago, Ill.*	C. & G. House
Huselton, James Shaw	*Butler, Penn.*	Δ K E House
Irwin, Burr Polk	*Quincy, Ill.*	29 Richardson
Kelley, Edward Patrick	*No. Andover, Mass.*	6 No. Fayerweather
Kennedy, George Francis	*Roxbury, Mass.*	5 Proctor
Killam, Carl	*East Boxford, Mass.*	9 College
Kilroe, Edward Augustine	*Waterbury, Conn.*	7 Reed
King, Samuel Frederick	*Newton Highlands, Mass.*	X Φ House
Kivel, Maurice	*Dover, N. H.*	Ψ Υ House
Klopp, Valentine Isaac	*Mt. Aetna, Penn.*	K K K House
Lamb, William Ers	*Washington, D. C.*	51 New Hampshire
Lane, Walter John	*Gilmanton, N. H.*	28 Sanborn
Laton, Fred Dighton	*Nashua, N. H.*	22 Sanborn
Leete, George Paul	*Concord, N. H.*	5 College St.
Leighton, Stanley Winthrop	*Boston, Mass.*	C. & G. House
Locke, Richard Baldwin	*Belmont, Mass.*	21 New Hampshire
Loughlin, William Albert	*Worcester, Mass.*	30 Reed
Lyon, Graham Spear	*Legonier, Ind.*	C. & G. House
McCurdy, Allan Morrill	*Andover, Mass.*	47-48 Fayerweather
McLoud, Anson	*Roxbury, Mass.*	29 Richardson
Marion, Gardner Sparhawk	*Brighton, Mass.*	Α Δ Φ House
Marshall, Leon Craig	*Hanover, N. H.*	38 S. Main St.
Mason, Jasper Karl	*Calais, Me.*	1 New Hampshire
Meleney, Henry Edmund	*Brooklyn, N. Y.*	X Φ House
Moffatt, Elbert Marston	*St. Joseph, Mich.*	Non-resident
Moody, Howard Gage	*Worcester, Mass.*	4 Richardson
Morawski, Frederick Haubrich	*Roxbury, Mass.*	Davison Block

Name	Residence	Room
Morse, Leon Jeremiah	*Wilder, Vt.*	Wilder, Vt.
Mower, Robinson Haile	*Rockford, Ill.*	5 Crosby
Murchie, Harold Hale	*Calais, Me.*	11 Sanborn
Naylor, Emmett Hay	*Evanston, Ill.*	C. & G. House
Nolan, Leo Francis	*Newport, R. I.*	8 New Hubbard
Norris, Edward Plumer	*Portsmouth, N. H.*	11 Crosby
Noyes, Alvin Clark	*Bethlehem, N. H.*	46 New Hampshire
O'Brien, Francis James	*North Andover, Mass.*	1 Proctor
Oliphant, George Woodbury	*Methuen, Mass.*	Δ T Δ House
Osborne, Harold Allen	*Lynn, Mass.*	X Φ House
Parker, Thomas Oscar	*Pepperell, Mass.*	35 N. Main St.
Parkinson, Taintor	*Waltham, Mass.*	23 Reed
Patch, William Townsley	*Shelburne Falls, Mass.*	Bridgman Block
Patterson, William Hubbard	*Chicago, Ill.*	C. & G. House
Pearl, Roswell Thornton	*Boston, Mass.*	10 Wentworth
Pearson, Charles Wadleigh	*Nashua, N. H.*	20 Sanborn
Perry, Chester Norman	*Dorchester, Mass.*	6 Proctor
Peterson, Howard Bigelow	*Waltham, Mass.*	2 New Hampshire
Pettengill, Russell Arthur	*Dallas, Tex.*	6 Crosby
Place, Albert Whitford	*Francestown, N. H.*	8 Lebanon St.
Plummer, Fred Byron	*Hanover, N. H.*	1 S. Park St.
Pool, Sterling Howard	*Lynn, Mass.*	15 Wheeler
Prescott, Harold Milton	*Concord, N. H.*	7 Richardson
Readey, Maurice	*Manchester, N. H.*	43 New Hampshire
Reagan, Frank Joseph	*Framingham, Mass.*	40 Massachusetts
Reed, Fred Leon	*Malden, Mass.*	K K K House
Rich, Edward Dillon	*Boulder, Colo.*	25 Lebanon St.
Richardson, Leroy Mowry	*Winchester, Mass.*	16 New Hampshire
Richardson, Ralph Joseph	*Fairmount, Minn.*	16 Wheeler
Rogers, Earle Jackson	*Cabot, Vt.*	11 So. Fayerweather
Rogers, Walter Clarence	*Quincy, Mass.*	22 Richardson
Root, Kenneth Edward	*Chicago, Ill.*	21 Richardson
Rose, Philip Marshman	*Reed's Ferry, N. H.*	16 So. Fayerweather
Ross, Wallace Mason	*Lebanon, N. H.*	27 New Hampshire
Saville, Clark	*Quincy, Mass.*	2 New Hubbard
Schofield, Albert	*Newtonville, Mass.*	38 New Hampshire
Schwartz, Harvie Ellsworth	*Yonkers, N. Y.*	24–25 No. Fayerweather
Scully, Bernard Matthew	*Accord, Mass.*	17 Wentworth
Sheldon, Curtiss Lanphere	*New Britain, Conn.*	Δ T Δ House
Shoppelry, Arthur Howard	*Everett, Mass.*	K K K House
Sidley, Walter Augustine	*Lawrence, Mass.*	1 Proctor
Simpson, Claude Randolph	*Milford, Mass.*	29–30 So. Fayerweather
Smith, Winthrop Lamson	*Brooklyn, N. Y.*	3 Wheeler
Snow, Clifton Albert	*Holyoke, Mass.*	7 Massachusetts
Sporborg, Arthur Joseph	*Albany, N. Y.*	12 So. Fayerweather

Name	Residence	Room
Stanley, Arthur Burgess	*Hyde Park, Mass.*	32 New Hampshire
Stark, Eugene Miller	*Cedar Rapids, Ia.*	21 Wheeler
Stone, Robert Mason	*Winchester, Mass.*	1 So. Fayerweather
Storer, Perley Nelson	*Portsmouth, N. H.*	11 Crosby
Stucklen, Henry William	*Dorchester, Mass.*	5 Crosby
Swenson, John Arthur	*North Concord, N. H.*	10 College St.
Taylor, Franklin Barrett	*Hanover, N. H.*	9 Pleasant St.
Theller, Ralph Lauris	*Cambridge, Mass.*	C. & G. House
Thompson, Sidney Hammond	*St. Johnsbury, Vt.*	Φ Δ Θ House
Tucker, Lynde	*Albany, N. Y.*	Ψ Υ House
Tuttle, James Norwood	*Harwichport, Mass.*	11 W. Wheelock St.
Varney, John Cushing	*No. Chelmsford, Mass.*	30 New Hampshire
Walker, Charles Howard	*Portsmouth, N. H.*	11 Crosby
Walker, Herbert Moore	*Goff's Falls, N. H.*	10 Crosby
Walker, Herman Luther	*Cornish, N. H.*	57 New Hampshire
Ward, Harry Abbott	*Lynn, Mass.*	54 New Hampshire
Watson, Daniel Edward	*Roxbury, Mass.*	2 No. Fayerweather
Weinz, Arthur Gordon	*Roxbury, Mass.*	20 New Hampshire
West, Vernon Frost	*Portland, Me.*	K K K House
Whelpley, Walter Merton	*Winthrop, Mass.*	1 Reed
Whitcomb, Henry Bassett	*Newton, Mass.*	Α Δ Φ House
White, Arthur Cordingley	*Roxbury, Mass.*	20 New Hampshire
Whitmore, Harold Cushing	*Lynn, Mass.*	Observatory
Wight, Ralph Maynard	*Ogdensburg, N. Y.*	22-23 No. Fayerweather
Wiley, Earl Wellington	*Holyoke, Mass.*	7 Massachusetts
Williams, Frank Birtwistle	*Fall River, Mass.*	5 Proctor
Wing, Richard Lyman	*New Bedford, Mass.*	3 Crosby
Worthen, Joseph Washburn	*Hanover, N. H.*	11 Webster Ave.
Wright, Louis Forrest	*Campello, Mass.*	20 Wheeler
York, George Monroe	*Somerville, Mass.*	Δ Τ Δ House

JUNIORS

Allen, Arthur Pratt	*South Berlin, Mass.*	8 Wentworth
Allen, Clarence Eugene	*Fitchburg, Mass.*	52 New Hampshire
Allen, George Edgar	*Bradford, Mass.*	5 New Hubbard
Badgley, Jerome Brigham	*Denver, Colo.*	36 Wheeler
Bailey, Theodore Mead	*Sioux Falls, S. D.*	C. & G. House
Bankart, Laurence Hardy	*Bridgton, Me.*	55 New Hampshire
Bardwell, Charles Albion	*Dorchester, Mass.*	9 Sanborn
Barrett, Arnold Leavenworth	*Florence, Mass.*	29-30 So. Fayerweather
Bartlett, Frank Merwin	*West Lebanon, N. H.*	57 New Hampshire
Bartlett, Joseph	*Louisville, Ky.*	16 Wentworth
Batchellor, Fred Copeland	*Littleton, N. H.*	K K K House

Name	Residence	Room
Bates, John Wesley	*Somersworth, N. H.*	17 College
Baxter, Chauncey Buel	*Hyde Park, Mass.*	14 Wheeler
Belcher, Thomas Lewis	*Winthrop, Mass.*	1 Reed
Benjamin, Harold Culver	*West Medford, Mass.*	25 Massachusetts
Blake, Maurice Cary	*Brookline, Mass.*	20 Massachusetts
Brady, Francis Anthony	*South Boston, Mass.*	20 Fayerweather
Brooks, Frederic Carleton	*Denver, Colo.*	36 Wheeler
Brooks, John Cowles	*Claremont, N. H.*	35 Reed
Brooks, Philip Preston	*Charlestown, N. H.*	15 Wentworth
Brown, Frederic Kenyon	*Sharon, Vt.*	2 Bartlett
Bryant, Donald Runnells	*Chicago, Ill.*	29 Massachusetts
Bucknam, Arthur Bertram	*Stoneham, Mass.*	18 Fayerweather
Bull, Leslie Augustus	*Billerica, Mass.*	11 No. Fayerweather
Burton, Fletcher Payne	*Brookline, Mass.*	6 College
Carter, Warren Shaw	*Somersworth, N. H.*	19 New Hampshire
Cassidy, John Anthony	*Brooklyn, N. Y.*	37 Fayerweather
Chamberlin, George Edward	*Manchester, N. H.*	17 S. Main St.
Charlton, Hoitt Newton	*Marlboro, Mass.*	25 Sanborn
Chase, Laurence Carlisle	*Everett, Mass.*	48 Fayerweather
Chase, Philip Minot	*Boston, Mass.*	20 Wheeler
Clough, John	*Hanover, N. H.*	ΔΚΕ House
Coar, Herbert Greenleaf	*Brooklyn, N. Y.*	27–28 So. Fayerweather
Coburn, Guy Adams	*East Jaffrey, N. H.*	33 New Hampshire
Coffin, Henry Clay	*Everett, Mass.*	21 School St.
Coleman, Albert James	*Cambridge, Mass.*	4 Massachusetts
Colgan, James Francis, Jr.	*New Haven, Conn.*	1 Fayerweather
Collins, Henry Francis	*Lawrence, Mass.*	10 Thornton
Colwell, David Miller	*Mansfield, O.*	13 Sanborn
Comey, Chester Francis	*Mansfield, Mass.*	43 Wheeler
Comey, Henry Cheever	*Melrose, Mass.*	10 Wentworth
Conklin, Kennedy	*New York, N. Y.*	1 Massachusetts
Cooper, Brown	*Fort Wayne, Ind.*	28 Wheeler
Copp, Reuben Rixford	*New Durham, N. H.*	14 Reed
Crawford, Charles Luther	*Rockford, Ill.*	11–12 Fayerweather
Crosby, Alpheus Dixi	*New York, N. Y.*	2 Reed
Crosby, Sumner	*Centreville, Mass.*	A Sanborn
Curtis, William Edward	*Worcester, Mass.*	21 Thornton
Cutler, Raymond Fiske	*Warren, Mass.*	32 Reed
Davidson, Joseph James	*North Stratford, N. H.*	5 Ford Block
Davies, George Clement	*Vergennes, Vt.*	41 Wheeler
Dodge, Carleton Noyes	*Henniker, N. H.*	10 College St.
Donovan, Francis Leonard	*Troy, N. Y.*	1 Fayerweather
Dore, Harry Burns	*Portsmouth, N. H.*	4 Massachusetts
Dorr, Allen Everett	*Richmond, Mass.*	4 Occom Ridge
Driscoll, James Glynn	*Whitinsville, Mass.*	55 New Hampshire

Name	Residence	Room
Driver, Harry Herman	*Pittsburg, Penn.*	6 Proctor
Drummond, James, Jr.	*Amesbury, Mass.*	50 New Hampshire
Dudley, William Wallace	*Wayland, Mass.*	Δ T Δ House
Dusham, Edward Henry	*North Andover, Mass.*	19 New Hubbard
Dussault, William Arthur	*Franklin, N. H.*	25 Lebanon St.
Eastman, Maurice Warren	*St. Cloud, Minn.*	29–30 So. Fayerweather
Eastman, Whitney Haskins	*Fort Ann, N. Y.*	24 Sanborn
Elliott, Richard Maurice	*Lowell, Mass.*	27 Richardson
Emerson, Nathaniel Albert	*Etna, N. H.*	1 S. Park St.
Everett, James Richard	*So. Framingham, Mass.*	Davison Block
Fall, Howard	*Malden, Mass.*	38 New Hampshire
Farwell, John Thurston	*Berlin, N. H.*	13 New Hampshire
Fay, Charles Jackson	*Roxbury, Mass.*	5–8 Proctor
Ferguson, John Alva	*Dorchester, Mass.*	17 College
Field, John Henry, Jr.	*Nashua, N. H.*	10 Wentworth
Finn, John Haley	*Lynn, Mass.*	15 Fayerweather
Fogg, Howard Lockhart	*Hyde Park, Mass.*	44 Massachusetts
Foreman, Harold Edwin	*Chicago, Ill.*	10 New Hampshire
Forristall, Philip Merrill	*Malden, Mass.*	13–15 Richardson
Foss, Noah Sylvester	*Plymouth, N. H.*	42 Fayerweather
Foster, Thomas Albert	*Portland, Me.*	K K K House
Fowler, Allan Prime	*Yonkers, N. Y.*	1 Sanborn
Frame, James	*Newport, R. I.*	25 So. Fayerweather
Gibson, Charles Edward	*East Ryegate, Vt.*	37 New Hampshire
Gleason, Gay	*Cambridge, Mass.*	K K K House
Golde, Walter Hermann Julius	*Brooklyn, N. Y.*	8 Lebanon St.
Gonyer, George Frederick	*Littleton, N. H.*	25 No. Main St.
Gooding, Henry Evans	*Portland, Me.*	13 Reed
Gorton, Robert Raymond	*West Newton, Mass.*	5 Crosby
Gow, Arthur Coleman	*Somerville, Mass.*	11 Thornton
Grant, William Bradford	*Goffstown, N. H.*	2 Swett
Graves, George Alexander, 2d	*Springfield, Mass.*	Ψ Υ House
Greenwood, Donald Whittier	*Farmington, Me.*	18 Wentworth
Griffin, Ned Gray	*Albany, N. Y.*	34 New Hampshire
Hammond, Dana King	*Berwick, Me.*	7 Sanborn
Harrison, Henry Roger	*Denver, Colo.*	Β Θ Π House
Haserot, Henry McKinney	*Cleveland, O.*	6 Richardson
Hatch, Arnold Stuart	*Albany, N. Y.*	11–12 Fayerweather
Hatch, Joseph Richmond	*Chelsea, Mass.*	Β Θ Π House
Hiestand, Edgar Willard	*Chicago, Ill.*	62 Wheeler
Higbee, Edward Wyman, Jr.	*Newport, R. I.*	9 New Hubbard
Hill, Albert Frederick	*Attleboro, Mass.*	42 Fayerweather
Hinman, Harold Purman	*North Stratford, N. H.*	24 Massachusetts
Hitchcock, Charles Frederick	*Gilbertville, Mass.*	25 Wheeler
Hobbs, John William French	*North Hampton, N. H.*	Β Θ Π House

Name	Residence	Room
Holmes, Max Lucius	*Newton, Mass.*	28 Richardson
Holmes, **Talley Robert**	*Washington, D. C.*	12 Elm
Hoyt, Grover **Sargent**	*Craftsbury, Vt.*	7 Wheeler
Hunt, Benjamin Henry	*East Weymouth, Mass.*	22 Reed
Hunt, Wesley Marshall	*Hanover, N. H.*	40 S. Main St.
Hunter, Harry Holland	*Evanston, Ill.*	**Α Δ Φ** House
Huntington, Thurlow **Titus**	*Shortsville, N. Y.*	4 Bartlett
Hutchins, Henry Clinton	*Boston, Mass.*	46 Wheeler
Hyde, Royal Wilkins	*Milford, N. H.*	**Χ Φ** House
Ingalls, James Warren	*Lynn, Mass.*	24 Sanborn
Jackson, Harold Pineo	*Montpelier, Vt.*	10 Wheeler
Jenness, Thornton Weeks	*Rye Beach, N. H.*	**Β Θ Π** House
Jewett, Irving Frederick	*Reading, Mass.*	18 College
Johnson, David Laundon	*Cleveland, O.*	17 Richardson
Johnson, Robert Van **Ness**	*Denver, Colo.*	9 Elm
Johnson, Victor Haquet	*South Bend, Wash.*	37 Fayerweather
Jones, Hazen Worcester	*Malden, Mass.*	13–15 Richardson
Jones, Ralph Bartlett	*Huntington Beach, Cal.*	1 Hubbard
Josselyn, Stormont	*North Andover, Mass.*	2 New Hampshire
Judd, Harold Lewis	*Cleveland, O.*	11 Crosby
Keith, Edson Warren	*West Wareham, Mass.*	Observatory
Kelley, Henry Preston	*Mattapan, Mass.*	23 Fayerweather
Kendall, Leon Buell	*Ballard Vale, Mass.*	**Κ Κ Κ** House
Kent, Charles Herbert	*Roxbury, Mass.*	27 Sanborn
Kerley, James Joseph	*Ballston Spa, N. Y.*	4 Proctor
Kidder, George Herrick Faber	*Orange, N. J.*	9 Richardson
Kinney, Joseph Ritchie	*Winthrop, Mass.*	3 Sanborn
Knox, Thomas Start	*Jackson, Minn.*	9 Massachusetts
Kusic, Alvis	*Ann Arbor, Mich.*	5 Swett
Langdell, Louis Charles	*Milford, N. H.*	11 No. Fayerweather
Levermore, Charles Lewis	*Brooklyn, N. Y.*	1 Sanborn
Libby, Charles Otis, Jr.	*Bangor, Me.*	30 Fayerweather
Lord, Arthur Hardy	*Hanover, N. H.*	14 Crosby
Loveland, Edward Hildreth	*Norwich, Vt.*	24 W. Wheelock St.
Lyon, Clifford Stanley	*Holyoke, Mass.*	63 Wheeler
McClintock, George Leonard	*Boothbay Harbor, Me.*	6 Fayerweather
McLane, Arthur Findley	*Denver, Colo.*	26 Fayerweather
McPherson, James Eben	*South Framingham, Mass.*	3 Sanborn
Maerker, Karl Rollin	*Napoleon, O.*	21 New Hampshire
March, Harold Johnson	*Shelburne Falls, Mass.*	7 So. Fayerw'ther
Marston, Ralph Herbert	*Roxbury, Mass.*	6 Proctor
Martin, Edwin Daniel	*Oak Park, Ill.*	54 Wheeler
Mathewson, Samuel Anderson	*New York, N. Y.*	11 Richardson
Maynard, Newell Carroll	*Newton, Mass.*	2 Bartlett
Meagher, Ward Charles	*New York, N. Y.*	20 Richardson

Name	Residence	Room
Meleney, Frank Lamont	*Brooklyn, N. Y.*	14 Crosby
Meredith, Russell Dudley	*Troy, N. Y.*	14 Fayerweather
Miller, Burton Carr	*Albany, N. Y.*	7 So. Fayerweather
Mitchell, Harry Gilbert	*South Boston, Mass.*	16 Reed
Mitchell, John Cyrus, Jr.	*Boise, Idaho*	Δ T Δ House
Moe, William Collins Hainsworth	*Norwich, Vt.*	Norwich, Vt.
Morrissey, Francis Michael	*East Walpole, Mass.*	6-8 Hubbard
Moses, Lester Ezra	*Lancaster, N. H.*	19 Fayerweather
Mudgett, Harry Horton	*Andover, N. H.*	23 Wentworth
Nay, Winthrop Shaw	*Dorchester, Mass.*	11-12 Fayerweather
Nelson, Earl Carlton	*Hanover, N. H.*	9 New Hubbard
Newton, Allen Edward	*Winthrop, Mass.*	2 No. Fayerweather
Nickerson, Atkins	*Melrose, Mass.*	1 Massachusetts
Nissen, Louis Peter	*Newport, R. I.*	4 Hubbard
Norton, Walter Heselton	*Winthrop, Mass.*	3 Sanborn
Nourse, James Percival	*Rutland, Mass.*	22 Wentworth
Paine, Ralph Howe	*White River Junction, Vt.*	8 Wentworth
Palmer, Donald Ferguson	*Paducah, Ky.*	18 Massachusetts
Palmer, Earl Russell	*Paducah, Ky.*	18 Massachusetts
Parker, Robert Emerson	*Reading, Mass.*	6 College
Paul, Edward Augustus	*Wakefield, N. H.*	2 Sanborn
Peck, Warren Lawrence	*St. Johnsbury, Vt.*	Φ Δ Θ House
Perry, Guy Maxwell	*Littleton, N. H.*	9 Wentworth
Perry, Winthrop Scott	*Maynard, Mass.*	45 Wheeler
Phelps, Walter Alfred	*Wakefield, Mass.*	24 Fayerweather
Phillips, Kenneth Daniel	*Omaha, Neb.*	25 New Hampshire
Pierce, Earle Howard	*Newtonville, Mass.*	18 College
Pishon, Sturgis	*West Roxbury, Mass.*	21 Crosby
Pitcher, Karl Herbert	*Haverhill, Mass.*	11 So. Fayerweather
Porter, James Marsh	*Malden, Mass.*	13-15 Richardson
Powers, Leland	*Newton, Mass.*	29 Wheeler
Pratt, Everard Stowell	*Brookline, Mass.*	1 Wheeler
Prescott, Edgar B	*Laconia, N. H.*	29 Wheeler
Raabe, Edwin Otis	*Fitchburg, Mass.*	36 Fayerweather
Rainey, Frederick Albert	*Round Lake, N. Y.*	6 Elm
Reed, Henry Ransford	*Arlington, Mass.*	Α Δ Φ House
Reynolds, Rollo George	*Cambridge, Vt.*	30 Fayerweather
Rice, Clifford Edward	*Pittsfield, Mass.*	52 Wheeler
Ricker, Albert Amasa	*St. Johnsbury, Vt.*	Φ Δ Θ House
Robinson, Everett William	*Mansfield, Mass.*	43 Wheeler
Robinson, Frank Owen	*Belmont, Mass.*	44 Fayerweather
Robinson, Harold Wesley	*Warren, Vt.*	6 Swett
Rogers, Fletcher	*Brooklyn, N. Y.*	Thayer Building
Rollins, Arthur Sederquist	*West Alton, N. H.*	15 Reed
Sandberg, Harry Otis	*Dorchester, Mass.*	14 New Hubbard

Name	Residence	Room
Scarlett, Andrew Jackson, Jr.	*West Boylston, Mass.*	12 Wheeler
Schildmiller, George Henry	*Waterbury, Conn.*	6 Massachusetts
Schulte, Harold Casper	*Dollar Bay, Mich.*	19 Thornton
Scott, Irving Osgood	*Hinckley, Me.*	2 Reed
Seymour, Raymond Branch	*New York, N. Y.*	4 Proctor
Shambow, John Christopher	*Woonsocket, R. I.*	13 New Hampshire
Shattuck, Edmund James	*Norwood, Mass.*	4 Crosby
Shaw, Warren Choate	*Lowell, Mass.*	13 Thornton
Sherman, Leo Prentiss	*West Ruport, Vt.*	6 Swett
Sherman, Nathaniel Alden	*Allston, Mass.*	K K K House
Sherwin, Ralph Arthur	*Orange, Mass.*	24 Thornton
Sickman, John Edwin	*Holyoke, Mass.*	62 Wheeler
Sinclair, George Cheever	*Medford, Mass.*	28 Wheeler
Smith, Dallas Forbes	*Chatham, Mass.*	19 Fayerweather
Smith, Howard Votey	*Pittsford, Vt.*	22 New Hampshire
Smith, Mark Anson	*Lebanon, N. H.*	26 Wheeler
Smith, Sheldon Bainbridge	*Troy, N. Y.*	14 Fayerweather
Smith, Thayer Adams	*Hanover, N. H.*	9 School St.
Smith, Theo Rice	*Brooklyn, N. Y.*	51 Wheeler
Sprague, Harold Wentworth	*Brockton, Mass.*	3 Crosby
Stephens, Ernest	*Gloucester, Mass.*	14 No. Fayerweather
Steward, Edgar Mills	*Chicago, Ill.*	42 Massachusetts
Steward, Thomas Edward	*St. Cloud, Minn.*	16 Wheeler
Steward, Wayne Dudley	*Chicago, Ill.*	42 Massachusetts
Stone, Robert Hazen	*Wilder, Vt.*	8 Wentworth
Taylor, Marvin Cooper	*Worcester, Mass.*	Δ T Δ House
Taylor, Otto Frank	*Lawrence, Mass.*	5 New Hubbard
Taylor, Ralph Warren	*Lawrence, Mass.*	29 New Hampshire
Taylor, Wilbur Leyland, Jr.	*Lawrence, Mass.*	6 No. Fayerweather
Teall, Maynard Canfield	*Sodus, N. Y.*	4 Hubbard
Thomas, Charles Albert Cornelius	*Buffalo, N. Y.*	11 Elm
Thomes, John Bidwell	*Portland, Me.*	29 Massachusetts
Tirrell, Herbert Leroy	*Malden, Mass.*	25 So. Fayerweather
Tobin, Clarke Walworth	*Dorchester, Mass.*	27 New Hampshire
Tucker, William Ellsworth	*Chelsea, Mass.*	45 Massachusetts
Unangst, Ernest Walker	*Hingham, Mass.*	17 Wentworth
Underwood, George Adam	*Gardner, Mass.*	16 Fayerweather
VanderPyl, John Cornelius	*Roxbury, Mass.*	Β Θ Π House
Van Zant, Ralph Dale	*Denver, Colo.*	30 Massachusetts
Vincens, Richard George	*Springfield, Mass.*	7 No. Fayerweather
Wagner, Ernest Adolph	*Manchester, N. H.*	33 Reed
Wallace, Louis Burr	*Rochester, N. H.*	Ψ Υ House
Warren, Julius Ernest	*Worcester, Mass.*	45 Wheeler
Washburn, Harold Edward	*Putney, Vt.*	20 Sanborn
Wells, Harry Artemas	*Apthorp, N. H.*	9 Wentworth

Name	Residence	Room
Wellsted, Thomas Cedric	*Cleveland, O.*	C. & G. House
West, Harris Moody	*Chester, N. H.*	25 Lebanon St.
Wiggin, Leslie Sherwood	*Somerville, Mass.*	Β Θ Π House
Williams, Ben Ames	*Jackson, O.*	Δ Τ Δ House
Williams, Lewis Mesler	*Glencoe, Ill.*	Ψ Υ House
Wilson, Raymond Walden	*Springfield, Mass.*	24-25 No. Fayerw'ther
Winchester, Harold Eugene	*Bismarck, N. D.*	2 Wheeler
Winship, Harold Sumner	*Passaic, N. J.*	17 Thornton
Wolff, Herbert Alfred	*New York, N. Y.*	25 Richardson
Wood, Abiel Wayland	*Worcester, Mass.*	23 Fayerweather
Woolner, William Harold	*Everett, Mass.*	6-8 Hubbard
Worcester, Francis	*Pittsburg, Penn.*	10 Crosby

SOPHOMORES

Adams, George Herbert, Jr.	*Plymouth, N. H.*	14 So. Fayerweather
Adams, Mark Irving	*Brookline, Mass.*	26 Massachusetts
Agry, Warren Cram	*Newton, Mass.*	Ψ Υ House
Albert, Eugene Paul	*Elmhurst, Ill.*	21 Massachusetts
Allison, Benjamin Roy	*Malone, N. Y.*	14 Richardson
Applegate, Davis Vail	*Brooklyn, N. Y.*	5½ W. South St.
Armstrong, Ferdinand Douglas	*Winchester, Mass.*	1 So. Fayerweather
Aronowitz, Samuel Ettelson	*Albany, N. Y.*	6 So. Fayerweather
Ayer, Paul Palmer	*Belmont, Mass.*	44 Fayerweather
Ayers, Benjamin Kimball	*Concord, N. H.*	13 Crosby
Backus, Sidney Kinney	*Rome, N. Y.*	49 Fayerweather
Barker, Almon Charles	*New Vineyard, Me.*	4 School St.
Barnes, Gerald Cowenhoven	*Brooklyn, N. Y.*	24 College
Barstow, Robbins Wolcott	*Lee, Mass.*	16 New Hubbard
Bartlett, John Foster	*Hanover, N. H.*	8 W. Wheelock St.
Batchelor, James Harold	*Valley Falls, Kan.*	7 Sanborn
Beane, Sydney Clifford	*North Weymouth, Mass.*	15 Sanborn
Bicknell, Harry Monroe	*Malone, N. Y.*	8 Wheeler
Blanchard, Ralph Harrub	*Plympton, Mass.*	21 Reed
Bond, Harold Charles	*Malden, Mass.*	8 No. Fayerweather
Bourlet, Fred Arthur	*White River Junction, Vt.*	20 Thornton
Bowker, Charles Watson, Jr	*Worcester, Mass.*	6 Sanborn
Boynton, John Jackson	*Claremont, N. H.*	21 Sanborn
Briggs, Paul Brownell	*Chelsea, Mass.*	9 So. Fayerweather
Brooks, Lafayette Noble	*Haverhill, Mass.*	10 Elm
Brown, Henry Willis	*Brookline, Mass.*	21 College
Brown, William Glover, Jr.	*Gloucester, Mass.*	9 Massachusetts
Brusse, Joseph Cleveland	*Denver, Colo.*	26 Fayerweather
Burbeck, Burton Keith	*North Abington, Mass.*	11 New Hubbard

Name	Residence	Room
Burleigh, Nathaniel George	*Franklin, N. H.*	23 Massachusetts
Burtt, Harold Ernest	*Haverhill, Mass.*	10 Elm
Butler, Aubrey Bickford	*Chelsea, Mass.*	8 So. Fayerweather
Butler, Harry	*Fort Dodge, Ia.*	32 Massachusetts
Butts, Chester Chamberlain	*Newton Centre, Mass.*	4 No. Fayerw'ther
Byrnes, George John	*South Boston, Mass.*	1 Wentworth
Campbell, Harold Andrew	*St. Albans, Vt.*	6–8 Hubbard
Card, Harold Sumner	*Atkinson Depot, N. H.*	6 Reed
Carlisle, William Smyth	*Brooklyn, N. Y.*	6 New Hubbard
Carmichael, Raymond Bills	*Rockford, Ill.*	22 New Hubbard
Carpenter, Guy Richard	*Binghamton, N. Y.*	X Φ House
Carroll, John Francis	*Barre, Vt.*	6 Wheeler
Carroll, William Edward	*Passaic, N. J.*	23 Massachusetts
Castle, Edward Carrick	*Quincy, Ill.*	10 No. Fayerweather
Chadbourne, Horace Barker	*Chelmsford, Mass.*	18 Richardson
Chamberlain, Edward Hutcherson	*West Lynn, Mass.*	6 New Hampshire
Chase, Edward Franklin	*Lynn, Mass.*	6 New Hampshire
Chase, Richard Volney	*Plymouth, N. H.*	14 So. Fayerweather
Chase, Thornton, Jr.	*Chicago, Ill.*	40 Massachusetts
Cheney, Donald Alexander	*Orlando, Fla.*	29 Massachusetts
Childs, David Allan	*Salem, N. H.*	1 Wheeler
Clark, Herbert Winthrop	*Dorchester, Mass.*	19 New Hubbard
Clark, Joshua Berlin	*Dorchester, Mass.*	34 Massachusetts
Clark, Kenneth Francis	*Brooklyn, N. Y.*	2 Sanborn
Clute, Howard Merrill	*Florence, Mass.*	34 Massachusetts
Coggins, John Thomas	*Nashua, N. H.*	1 Wentworth
Conroy, James Joseph	*Gardner, Mass.*	30 Reed
Cooper, Burt Randall	*Northwood, N. H.*	18 Sanborn
Craft, Daniel Dustin	*Chicago, Ill.*	29 Massachusetts
Crafts, Otis Thompson	*Manchester, N. H.*	3 No. Fayerweather
Crooks, Amos Willard	*Malone, N. Y.*	14 Richardson
Cushman, Ernest Alden	*Hanover, Mass.*	8 Massachusetts
Cushman, Hiram Norton	*Brighton, Mass.*	17 College
Dallas, Walford Lindsey	*Chicago, Ill.*	26 So. Fayerweather
Danahy, Daniel Garrat	*Everett, Mass.*	6 Wheeler
Davis, Carrol Campbell	*West Roxbury, Mass.*	2 Richardson
Davis, Tenney Lombard	*Somerville, Mass.*	44 Massachusetts
Deering, William Hall	*Saco, Me.*	13 New Hubbard
Deshon, Percy	*Hot Springs, Ark.*	19 So. Fayerweather
Dingle, John Harvey	*Omar, Del.*	25 Massachusetts
Dodge, Frank Schuyler	*Whitefield, N. H.*	5 Richardson
Doggett, Allen Barrows, Jr.	*Brooklyn, N. Y.*	Ψ Υ House
Donovan, Arthur Patrick	*Lynn, Mass.*	44 College St.
Downey, Joseph Elliott	*Newtonville, Mass.*	10 Massachusetts
Dudley, Trueworthy Franklin	*Penacook, N. H.*	16 Wentworth

Name	Residence	Room
Duffié, Clair Alfred Pelton	*West Brighton, N. Y.*	37 Wheeler
Dunham, Howard Floyd	*Winthrop, Mass.*	3 Reed
Dunning, Arthur Stephenson	*Duluth, Minn.*	36 Massachusetts
Dykeman, Harold Alonzo	*Chelsea, Mass.*	9 So. Fayerweather
Dwinell, George Francis	*Manchester, N. H.*	56 New Hampshire
Eaton, Frederick Choate	*Auburndale, Mass.*	17 Crosby
Eaton, Max Everett	*Wakefield, Mass.*	10 So. Fayerweather
Eaton, Sargent Flint	*Auburndale, Mass.*	Davison Block
Eaton, Stanley Gale	*Sioux City, Ia.*	18 So. Fayerweather
Edgerly, Clifton Tisdale	*Leominster, Mass.*	15 Sanborn
Eggers, Ludwig Theodore	*Mt. Vernon, N. Y.*	5½ W. South St.
Eiseman, Alfred Samuel	*New York, N. Y.*	41 Fayerweather
Emerson, Chester Arthur	*Medford, Mass.*	10 So. Fayerweather
Emerson, John Robie	*Haverhill, Mass.*	4 Reed
Emerson, Seth Austin	*Nashua, N. H.*	2 Wentworth
Evans, George Gornall	*Fall River, Mass.*	22 Fayerweather
Farnsworth, Harold Treadwell	*Milford, N. H.*	9 Sanborn
Farrell, Gabriel, Jr.	*Somerville, Mass.*	30 New Hampshire
Forbes, Charles Abbott	*New Sharon, Me.*	35 N. Main St.
Foster, John Whitney	*Manchester, N. H.*	43 New Hampshire
French, George Moulton	*Nashua, N. H.*	5 Wheeler
Fuller, Eugene White	*Joliet, Ill.*	22 College
Fulton, Robert Reed	*East Corinth, Vt.*	3 Wentworth
Ganley, Arthur Joseph	*Methuen, Mass.*	10 Thornton
Gaylord, James Fredcrick	*South Hadley, Mass.*	13 Fayerweather
Gibson, Lester Hartwell	*Jamaica Plain, Mass.*	10 No. Fayerweather
Gibson, Walter Burnap	*Lowell, Mass.*	2 Richardson
Goodere, Harold Ingham	*Fitchburg, Mass.*	27–28 So. Fayerweather
Gooding, Willard Merrill	*Portland, Me.*	13 Reed
Gordon, Arthur Alexander	*Barre, Vt.*	22–23 No. Fayerweather
Gordon, Earl Clifton	*Canaan, N. H.*	31 Reed
Gordon, William Davis	*Sioux City, Ia.*	18 So. Fayerweather
Grant, Frederick Whidden	*Winchester, Mass.*	24 So. Fayerweather
Gray, Arthur Harrison	*Watertown, Mass.*	15 New Hampshire
Greenwood, Walter Percival	*Cleveland, O.*	6 Richardson
Griswold, Ernest Henry	*Nashua, N. H.*	5 Wheeler
Grover, Mortimer Curry	*Evanston, Ill.*	Φ Δ Θ House
Hall, Louis Phillips, Jr.	*Ann Arbor, Mich.*	3 Richardson
Halstead, Harold Davidson	*Brooklyn, N. Y.*	Β Θ Π House
Harding, Lester Merton	*Waltham, Mass.*	20 Massachusetts
Harriman, Walter Gilbert	*Canaan, Vt.*	23 N. Main St.
Harris, Charles Willard	*East Burke, Vt.*	3 So. Fayerweather
Harris, Fred Henry	*Brattleboro, Vt.*	2 So. Fayerweather
Hart, William Frederick	*Everett, Mass.*	12–13 Hubbard
Hastings, Rolland Thomas Rankin	*Evanston, Ill.*	40 New Hampshire

Name	Residence	Room
Hatch, Robert Harrison	*Concord Junct., Mass.*	2 So. Fayerweather
Hawkes, Willis Everett	*Lowell, Mass.*	17 Crosby
Hawkridge, Leslie Dean	*Malden, Mass.*	8 No. Fayerweather
Hazeltine, Joseph Newhall	*Lynn, Mass.*	9 New Hampshire
Heald, Emory David	*Milford, N. H.*	17 New Hubbard
Hedges, Horace Gabriel	*Cedar Rapids, Ia.*	21 Wheeler
Henderson, William David	*Roslindale, Mass.*	13 Fayerweather
Herron, William Everhard	*Auburndale, Mass.*	18 Wheeler
Hill, Harold McKenzie	*Needham, Mass.*	20 College
Hoar, Carl Sherman	*West Acton, Mass.*	18 Sanborn
Hoffman, Donald	*Baltimore, Md.*	3 Massachusetts
Hoit, Ralph Henry	*Grasmere, N. H.*	20 Reed
Holdman, Oro Ellsworth	*Seattle, Wash.*	22 Reed
Hope, Carl Augustus	*Rockford, Ill.*	12–13 Hubbard
Hormel, Alfred Albert	*South Boston, Mass.*	20 Fayerweather
Hotaling, Neal Carson	*Pasadena, Cal.*	11 Wheeler
Hurley, Patrick James	*Lancaster, N. H.*	31 Fayerweather
Hursh, Richard Spahr	*Cambridge, Mass.*	35 Wheeler
Hyde, Harold Valmore	*Lynn, Mass.*	19 So. Fayerweather
Ingersoll, Jonathan Edwards	*East Cleveland, O.*	57 Wheeler
Irwin, James Matthew	*Quincy, Ill.*	38 Massachusetts
Jackson, Alton Blanchard	*Everett, Mass.*	K K K House
Jackson, Arthur Morison	*Everett, Mass.*	K K K House
Jenkins, Chester Albert	*Reading, Mass.*	24 New Hubbard
Jenks, George Harold	*Claremont, N. H.*	35 Reed
Johnson, Francis James	*Brookline, Mass.*	19 Massachusetts
Johnson, Frederic Plumley	*Waltham, Mass.*	20 New Hubbard
Jones, Carroll Thompson	*Alton Bay, N. H.*	15 Thornton
Jordan, Charles	*Wakefield, Mass.*	Β Θ Π House
Jordan, Gladstone	*Lancaster, N. H.*	31 Fayerweather
Judd, Edwin Black	*Westminster, Vt.*	15 Wentworth
Karr, Earle Field	*Passaic, N. J.*	20 Thornton
Keeler, Edwin Reitler	*Rockford, Ill.*	13 Wheeler
Keeler, Robert Boughton	*Cleveland, O.*	57 Wheeler
Kenworthy, Hugh	*Coatesville, Penn.*	28 Reed
Keough, Austin Campbell	*Brooklyn, N. Y.*	15 No. Fayerweather
Kimball, Robert Gage	*Concord, N. H.*	56–57 Wheeler
Kimball, Russell Hess	*Wheaton, Ill.*	Χ Φ House
Kimball, Warren Fuller	*Cambridge, Mass.*	5 Sanborn
Leach, George Thatcher	*Oak Park, Ill.*	15 No. Fayerweather
Learoyd, John Silvester	*Danvers, Mass.*	4 Sanborn
Leavitt, Charles Samuel	*Manchester, N. H.*	1 Bartlett
Leonard, Hartford	*Braintree, Mass.*	5 Massachusetts
Leonard, Thomas James	*Lancaster, N. H.*	Φ Δ Θ House
Locke, Clyde Earl	*Barton Landing, Vt.*	2 Fayerweather

Name	Residence	Room
Long, Frederick Weller	*Troy, O.*	13 Wheeler
Loring, Edward Otis	*Newton, Mass.*	17 Richardson
Loughlin, Thomas Albert	*Dorchester, Mass.*	27 New Hubbard
Lovejoy, Leon Earl	*West Claremont, N. H.*	25 Reed
Lowell, James Russell	*Portland, Me.*	K K K House
Lyons, Charles Irving	*Methuen, Mass.*	14 Massachusetts
McCarthy, Bernard Francis	*Fitchburg, Mass.*	17 New Hubbard
McConnell, Glen Gorrell	*Troy, O.*	46 Wheeler
McDonald, John Joseph	*Londonderry, N. H.*	21 Wentworth
MacLam, Clarence James	*Ryegate, Vt.*	3 Fayerweather
MacLam, Julian Dales	*Ryegate, Vt.*	15 New Hubbard
McLaughlin, Frederick Armour Aloysius	*Yonkers, N. Y.*	19 Sanborn
McLaughlin, Leon Eugene	*Laconia, N. H.*	25 Hallgarten
McQuesten, Philip	*Nashua, N. H.*	29 Massachusetts
Macomber, Stanley Bassett	*Boston, Mass.*	23 Sanborn
Magrane, Joseph Albert	*Lynn, Mass.*	Β Θ Π House
Malley, James Francis	*Randolph, Mass.*	52 Fayerweather
Marden, William Walker	*Troy, N. Y.*	1 New Hubbard
Marks, John	*Minneapolis, Minn.*	13 Massachusetts
Martin, Frederick Alfred	*Manchester, Vt.*	9 Crosby
Mathes, James Monroe	*Dover, N. H.*	Β Θ Π House
Mayer, John Charles	*New York, N. Y.*	25 Richardson
Maynard, William Doty	*Springfield, Mass.*	22–23 No. Fayerw'ther
Mayo, Walter Lester	*Watertown, Mass.*	4 College
Montgomery, James Blaine	*No. Lebanon, Me.*	51 Fayerweather
Morrill, Allan Donald	*Chicago, Ill.*	53 Fayerweather
Morrill, Ernest Everett	*Amesbury, Mass.*	8 Elm
Morrill, Robert Avery	*Manchester, N. H.*	3 No. Fayerweather
Morris, George Maurice	*Chicago, Ill.*	26 So. Fayerweather
Morton, Henry Jordan	*Kennebunk, Me.*	21 Reed
Moseley, Harold Alden	*Thompsonville, Conn.*	28 Reed
Moses, Charles Kingsley	*Garden City, N. Y.*	23 Sanborn
Muhlfelder, Leo	*Albany, N. Y.*	14 Massachusetts
Mullen, John Augustus, Jr.	*South Boston, Mass.*	16 Reed
Murchie, Ralph Deane	*Calais, Me.*	2 Crosby
Nead, Raymond Harker	*Norwood, Mass.*	2 Crosby
Needham, Edgar	*Charleston, W. Va.*	2 Proctor
Nevius, George Raymond	*Somerville, N. J.*	4 College
Norris, Elton Rockwell	*Cleveland, O.*	16 New Hubbard
Norris, John Oscar	*Melrose, Mass.*	38 Massachusetts
Norris, Rolf Clarke	*Methuen, Mass.*	2 Thornton
Noyes, John Wells	*Evanston, Ill.*	3 New Hampshire
Nutt, Alfred	*Cliffside, N. J.*	21 So. Fayerweather
Odlin, Lawrence Allen	*East Cleveland, O.*	Χ Φ House

Name	Residence	Room
O'Leary, Edward Joseph	*Brooklyn, N. Y.*	11 Wheeler
Orcutt, Clifton Ainslie	*South Weymouth, Mass.*	54 Fayerweather
Owen, Forrest Flagg	*Concord, N. H.*	16 Wentworth
Palmer, Raymond Eugene	*Paducah, Ky.*	18 Massachusetts
Parker, Troy LaSalle	*Chicago, Ill.*	10 Richardson
Parlin, Howard Shedd	*Littleton, N. H.*	12 Sanborn
Parsons, Charles Edward	*Washington, D. C.*	17 Reed
Partridge, Lewis Albert	*Manchester, N. H.*	7 New Hampshire
Patten, Bradley Merrill	*Hanover, N. H.*	15 Webster Ave.
Paul, Richard Farnsworth	*Boston, Mass.*	10 Wentworth
Pearse, William Henry	*Richmond Hill, N. Y.*	21 College
Pearson, John Walter	*Concord, N. H.*	13 Crosby
Pease, Arthur Dearborn	*Laconia, N. H.*	11 Thornton
Pease, Harold Warren	*Fall River, Mass.*	22 Fayerweather
Pendleton, Walter Irving	*Melrose, Mass.*	56 New Hampshire
Perry, Dwight Lincoln	*Worcester, Mass.*	6 Sanborn
Pevear, Chase Keith	*Boston, Mass.*	38 Wheeler
Pickering, Samuel James	*Manchester, N. H.*	33 Reed
Pierce, Hubert Sewell	*Fairlee, Vt.*	6 Elm
Pierce, Roger Grenway	*Dorchester, Mass.*	14 Sanborn
Plant, Thomas Corey	*Newton, Mass.*	17 Massachusetts
Plant, William Franklin, Jr.	*Newton, Mass.*	17 Massachusetts
Pollard, Fred Don, Jr.	*Proctorsville, Vt.*	13 Wentworth
Poole, Edward Smith	*Albany, N. Y.*	2 Proctor
Porter, John Daniel	*West Lebanon, N. H.*	17 S. Main St.
Post, Farrington DuBois	*St. Albans, Vt.*	6–8 Hubbard
Pounds, William Stilson	*Brooklyn, N. Y.*	Ψ Υ House
Powers, Merle Harold	*Manchester, N. H.*	5½ W. South St.
Price, Walter Milton	*Indianapolis, Ind.*	15 S. Main St.
Proudfit, Andrew Bruce	*Edinboro, Penn.*	2 Hubbard
Putnam, Guy Oliver	*Dorchester, Mass.*	4 New Hubbard
Qua, Francis Moncrief	*Lowell, Mass.*	18 Crosby
Quackenboss, Francis Bates	*Worcester, Mass.*	6 New Hubbard
Randall, John Albert	*Bridgewater, Mass.*	16 New Hampshire
Raymond, Harold Whitcomb	*East Weymouth, Mass.*	24 Reed
Reilly, Walter Benedict	*Lowell, Mass.*	41 Massachusetts
Remele, Charles William	*West Medford, Mass.*	14 Wheeler
Richardson, John Samuel, Jr.	*Boston, Mass.*	19 Massachusetts
Roberts, Everett Anson	*Rochester, N. H.*	24 New Hubbard
Robinson, Frank Owen	*Belmont, Mass.*	44 Fayerweather
Rockwood, Stanley Walker	*West Hartford, Vt.*	34 Fayerweather
Rollins, Malcolm Gale	*Newburyport, Mass.*	9 Crosby
Rose, Franklin Howard	*Ivoryton, Conn.*	15 Thornton
Rose, John Alvord	*Concord, Mass.*	22 College
Rossiter, Stephen Farley	*Worcester, Mass.*	18 Wentworth

Name	Residence	Room
Russell, John St. Clair	*Saranac Lake, N. Y.*	27 College
Russell, Newton Harold	*Holyoke, Mass.*	32 Wheeler
Ryan, John Joseph	*Waterbury, Conn.*	♣ △ ⊖ House
Sanborn, Harlan Page	*Wolfeboro, N. H.*	4 Sanborn
Sanderson, Robert Harrington	*Waltham, Mass.*	4 No. Fayerweather
Sargent, Arthur Forrest	*Pittsfield, N. H.*	8 Thornton
Sault, Robert Elmer	*Randolph, Vt.*	21 Sanborn
Sawyer, Carl Wetherbee	*Fitchburg, Mass.*	12 Wheeler
Scanlon, John Augustine	*Lawrence, Mass.*	7b Thornton
Schaupp, John Martin	*Fort Dodge, Ia.*	32 Massachusetts
Schell, Lindsly Bernard	*Washington, D. C.*	5 Massachusetts
Scherer, Gaston Jean	*Newton, Mass.*	23 Wheeler
Scotford, John Ryland	*Chicago, Ill.*	5 Fayerweather
Scott, Chester Francis	*Worcester, Mass.*	8 New Hubbard
Seaver, Henry Blanchard	*Brooklyn, N. Y.*	7 Fayerweather
Shepherd, Henry Arthur	*Waltham, Mass.*	20 New Hubbard
Shurtleff, Elbert Harrison	*Fairhaven, Mass.*	19 Reed
Smith, Henry Sanders	*Norwood, Mass.*	21 So. Fayerweather
Snow, Thornton Allan	*West Somerville, Mass.*	16 Sanborn
Spokesfield, Guy Carleton	*Worcester, Mass.*	Davison Block
Sprague, Rathburn Eaton	*Wollaston, Mass.*	11 New Hubbard
Stafford, Edward	*Washington, D C.*	15 New Hubbard
Stebbins, Charles Gillette	*Boston, Mass.*	12 Hubbard
Steeves, Guy Carleton	*New York, N. Y.*	19 No. Fayerweather
Steeves, John Francis, Jr.	*New York, N. Y.*	19 No. Fayerweather
Sterling, John Carleton	*Bridgeport, Conn.*	13 W. Wheelock St.
Stevens, Harry Rupert	*Franklin, N. H.*	16 Thornton
Stillman, William Thomas	*Bridgeport, Conn.*	13 W. Wheelock St.
Stix, Edgar Robert	*New York, N. Y.*	21 No. Fayerweather
Stone, Ried Herrick	*Dunbarton, N. H.*	2 Swett
Stout, Benjamin Middleton	*Oak Park, Ill.*	26 Richardson
Stucklen, Carl Louis	*Boston, Mass.*	20 No. Fayerweather
Sullivan, Warren	*New York, N. Y.*	Bridgman Block
Swain, David Whiton	*Brooklyn, N. Y.*	27-28 So. Fayerweather
Taylor, Raymond Ross	*Rockford, Ill.*	37 Wheeler
Thurber, George Freeman	*Nashua, N. H.*	21 Massachusetts
Tindall, Floyd George	*Kirkland, Ill.*	13 Sanborn
Trask, Henry Sherwood	*Deadwood, S. D.*	26 Richardson
Uline, Herbert Milton	*Troy, N. Y.*	20 Massachusetts
Vaitses, Timothy Stephens	*Melrose, Mass.*	5 Wentworth
Veitch, Raymond William	*Maynard, Mass.*	10 Hubbard
Waldron, Lester James	*Revere, Mass.*	33 Fayerweather
Walker, Harold Reed	*Orange, Mass.*	24 Thornton
Ward, Carroll Raymond	*Buckland, Mass.*	1 Bartlett
Warren, Charles Carleton, Jr.	*Waterbury, Vt.*	4 Crosby

Name	Residence	Room
Waterbury, Carl Arthur, Jr.	*Oriskany, N. Y.*	5 No. Fayerweather
Welch, John Bernard	*Cambridge, Mass.*	5 Sanborn
Weston, William Henry, Jr.	*New York, N. Y.*	12 Reed
Wheatley, Frank Edward	*North Abington, Mass.*	54 Fayerweather
Wheeler, Allan Thorpe	*Charles River, Mass.*	14 Sanborn
Wheeler, Bertrand Cole	*Charles River, Mass.*	Β Θ Π House
Wheldon, Richard Gilbert	*Ludlow, Vt.*	13 Sanborn
Whitcomb, Frank Sumner	*Lowell, Mass.*	18 No. Fayerweather
Whitcomb, Harold Flagg	*Boston, Mass.*	27 Massachusetts
Whitcomb, Paul	*Boston, Mass.*	27 Massachusetts
Whiting, Phineas Wescott	*Lowell, Mass.*	13 Thornton
Whitman, Ralph Edwin	*Somerville, Mass.*	20 No. Fayerweather
Wilder, Ralph Sprague	*East Weymouth, Mass.*	24 Reed
Wilkinson, Winsor Dornin	*Berkeley, Cal.*	13 New Hubbard
Willard, James Lowry	*Atlantic City, N. J.*	3 Wheeler
Wilson, Clyde Merton	*East Orange, N. J.*	16 Sanborn
Wilson, Jesse Scott	*Concord, N. H.*	Κ Κ Κ House
Wilson, Thornton Gray	*Mansfield, Mass.*	26 Massachusetts
Winship, Arthur Gould	*Reading, Mass.*	19 New Hampshire
Witte, Arthur Henry	*East Northfield, Mass.*	46 Fayerweather
Wyman, Arthur Edward	*Auburn, Me.*	23 Richardson
Yergin, Arthur Wallace	*Auburn, N. Y.*	7 Elm
Young, Riley Tilton	*Littleton, N. H.*	19 Allen St.

FRESHMEN

Adams, Benjamin Foster	*Derry, N. H.*	22 Wheeler
Ahlswede, Roland Benjamin	*Chicago, Ill.*	58 Wheeler
Allen, Henry Dickenson	*Lynn, Mass.*	3 Bartlett
Allen, Horace Eugene	*Swanton, Vt.*	5 New Hampshire
Allen, Mark Edward	*Somerville, Mass.*	4 Wentworth
Anderson, Edgar Weston	*Lynn, Mass.*	17 Sanborn
Armes, Henry Lyman	*Westminster, Mass.*	4 Wentworth
Ashley, Dominic Cessario	*Glens Falls, N. Y.*	8 College
Augur, Donald Glenny	*New Rochelle, N. Y.*	53 New Hampshire
Averill, Porter Wheaton	*Barre, Vt.*	25 Fayerweather
Baird, Robert Dixon	*Evanston, Ill.*	15 So. Fayerweather
Baker, Merton Howard	*Adams, Mass.*	5 Thornton
Ballou, Kenneth Stevens	*Worcester, Mass.*	49 Fayerweather
Barnett, Harry Carleton	*Newbury, Vt.*	4 New Hampshire
Barnhardt, Roy Benjamin	*Dayton, O.*	15 E. Wheelock St.
Barry, John Joseph	*Lawrence, Mass.*	7b Thornton
Barstow, Kenneth Glidden	*Cleveland, O.*	11 New Hampshire
Baxter, John Welles	*Hartford, Conn.*	21 Prospect St.

Name	Residence	Room
Belcher, Harold Blanchard	*Malden, Mass.*	44 New Hampshire
Belknap, Robert Brown	*Benton Harbor, Mich.*	35 New Hampshire
Bellows, Harold Arthur	*Littleton, N. H.*	12 Sanborn
Benton, Charles Everett	*Belmont, Mass.*	16 Richardson
Berthiaume, Edgar James	*Taunton, Mass.*	7 Swett
Biery, Walter Lawrence	*Lawrence, Mass.*	7 College
Blackstone, Edward	*The Weirs, N. H.*	47 New Hampshire
Bloom, Elmer Jacques	*Peoria, Ill.*	35 New Hampshire
Boak, James Earl	*Hughesville, Penn.*	12 New Hampshire
Booth, John Edward	*Burlington, Vt.*	6 Crosby
Boutwell, Roswell Murray, Jr.	*Boston, Mass.*	40 Wheeler
Boylan, Stephen Joseph	*Winthrop, Mass.*	28 Fayerweather
Brennock, Thomas Landhan	*Albany, N. Y.*	5 Richardson
Bresky, Otto	*Minneapolis, Minn.*	2 Hubbard
Brewster, John Densmore	*Windsor, Vt.*	5 So. Fayerweather
Brooks, Homer Harrington	*St. Albans Bay, Vt.*	6–8 Hubbard
Brown, Howard Bishop	*Stratford, N. H.*	19 Reed
Brown, Harry Madara	*Mt. Kisco, N. Y.*	15 Hubbard
Brown, Robert Elsmere	*Marlboro, N. H.*	9 W. South St.
Bruner, Warren Day	*Brooklyn, N. Y.*	12 Massachusetts
Buck, Ralph Maurice	*Newport, Vt,*	23 So. Fayerweather
Buell, Arthur Curtis	*Wellesley Hills, Mass.*	19 Thornton
Bullard, Gardner Palmer	*Arlington, Mass.*	22 Massachusetts
Burnham, Arthur Washington	*Norwich, Vt.*	25 New Hubbard
Burns, Randall Green	*Worcester, Mass.*	12 No. Fayerweather
Burns, Walter Gabriel	*Brooklyn, N. Y.*	10 New Hubbard
Cabot Charles Raymond	*Newtonville, Mass.*	20 Crosby
Campbell, Charles Vance	*Chicago, Ill.*	8 Crosby
Card, Walton Gardner	*Atkinson, Depot, N. H.*	6 Reed
Casey, Thomas James	*Beverly, Mass.*	7 Wentworth
Chapman, Elmer Dearborn	*Manchester, N. H.*	34 Reed
Chase, Harrie Brigham	*Brattleboro, Vt.*	15 So. Fayerweather
Chase, Lyle Dudley	*Lebanon, N. H.*	25 New Hubbard
Childs, Walter Hadden	*Manchester, N. H.*	7 New Hampshire
Church, Harold Paty	*Providence, R. I.*	14 New Hampshire
Clark, Arthur Henry	*Portland, Me.*	9 Hubbard
Clark, Fletcher, Jr.	*Sandwich, Mass.*	4 Fayerweather
Clark, Sydney Aylmer	*Auburndale, Mass.*	17 So. Fayerweather
Cleaves, James Hooker	*Medford, Mass.*	22 Massachusetts
Cobb, Arthur Thayer	*Berlin, N. H.*	48 Wheeler
Colburn, Horace Alvin	*Rutland, Vt.*	17 No. Fayerweather
Cole, Harry Waldo	*Beecher Falls, Vt.*	22 Thornton
Cooke, Lewis Clyde	*Alstead, N. H.*	15 New Hampshire
Coolidge, Paul Wendell	*Rutland, Vt.*	17 No. Fayerweather
Cottrell, James Thomas	*Tiverton, R. I.*	28 Fayerweather

Name	Residence	Room
Crocker, Walton Gibbs	*Wareham, Mass.*	27 Reed
Cronin, James Aloysius	*Holyoke, Mass.*	60 Wheeler
Crowell, Howard Hollon	*Fitchburg, Mass.*	52 New Hampshire
Cuddy, Clifford Moore	*Meriden, N. H.*	34 Fayerweather
Cutting, Earl Moulton	*Northfield, Vt.*	8 College
Daley, Edward John	*North Stratford, N. H.*	24 Massachusetts
Daly, John Joseph	*Abington, Mass.*	20 New Hubbard
Day, Frederic Davis	*Manchester, N. H.*	2 Thornton
Dean, Carlton Randall	*Worcester, Mass.*	12 No. Fayerweather
Deferrari, Roy Joseph	*Stoneham, Mass.*	11 Hubbard
DeMerritt, Dean Reade	*Northwood, N. H.*	31 Reed
Dodge, Cecil Pillsbury	*Lowell, Mass.*	18 Richardson
Doe, Elmer Harris	*Elizabeth, N. J.*	15 Hubbard
Doe, Nelson Luther	*Bradford, Vt.*	3 Wentworth
Doolittle, Herman Arthur	*Greenland, N. H.*	28 New Hubbard
Dorward, David Lawson	*Hinckley, Me.*	4 Reed
Dowley, Leroy Lentell	*Hyde Park, Mass.*	20 College
Dowst, Robert Saunders	*West Roxbury, Mass.*	23 N. Main St.
Doyle, Joseph Donald	*Brockton, Mass.*	33 Weeeler
Dudley, Albert Bartlett	*Lee, N. H.*	5 New Hampshire
Dunning, Willis Chandler	*New Dorp, Staten Island, N. Y.*	1 Elm
Eaton, Hugh Clifford	*Keene, N. H.*	36 Reed
Edwards, Willard Hemenway	*Hinsdale, Ill.*	3 New Hubbard
Ekstrom, Louis Frederick	*Nashua, N. H.*	2 Wentworth
Elcock, Walter Benjamin	*Dorchester, Mass.*	43 Massachusetts
Elweil, Clinton Ward	*Exeter, N. H.*	18 Reed
English, James Henry	*Warren, Vt.*	48 S. Main St.
Erwin, James Robinson	*Jersey City, N. J.*	3 New Hubbard
Evans, George Austin	*Fort Wayne, Ind.*	53 Wheeler
Farnum, Ralph Edward	*Danbury, N. H.*	34 Reed
Farrington, George Hobart	*Kingston, Mass.*	21 Reed
Fellows, Paul Raymond	*Tilton, N. H.*	19 Reed
Fisher, Charles Eben	*Taunton, Mass.*	25 Fayerweather
Fitz, David Slade	*Wakefield, Mass.*	8 So. Fayerweather
FitzPatrick, James King	*Belmont, Mass.*	30 Richardson
Fletcher, Robert Dearborn	*Concord, N. H.*	27 Reed
Flint, William Willard, Jr.	*Concord, N. H.*	27 Wheeler
Foote, Richard Whittier	*Newton Centre, Mass.*	5 Hubbard
Forbush, Arthur Rex	*Detroit, Mich.*	17 Reed
Foster, Kendall Peabody	*Peabody, Mass.*	28 New Hampshire
Fox, John Leslie	*Mansfield, Mass.*	19 Wentworth
Francis, Cedric Errol	*Washington, D. C.*	23 College
French, Arthur Edmund	*Holyoke, Mass.*	16 College
French, Francis Philbrick	*Exeter, N. H.*	19 Wentworth
French, Walter Merrill	*Queechee, Vt.*	23 N. Main St.

Name	Residence	Room
Freund, Harold Herman	*New York, N. Y.*	9 Reed
Frothingham, Roy Stuart	*Kenisco, N. Y.*	24 New Hampshire
Fuller, Harold Sylvester	*Lynn, Mass.*	50 Wheeler
Gale, Ashley Hardy	*Buffalo, N. Y.*	24 So. Fayerweather
Gammons, Everett Warren	*Cohasset, Mass.*	15 Massachusetts
Garcia, Alvaro	*Rosebank, Staten Island, N. Y.*	19 College
Garrison, Wyckoff Lawrence	*Brooklyn, N. Y.*	9 No. Fayerweather
Gately, Charles Edward	*Providence, R. I.*	12 Wentworth
Geiser, George Washington, Jr.	*Easton, Penn.*	30 Wheeler
Gibbs, Ruel Savery	*West Wareham, Mass.*	12 Thornton
Gibson, Stewart Knowlton	*West Newton, Mass.*	18 Reed
Gilbert, Chester Alexander	*Woonsocket, R. I.*	4 Elm
Gonyer, Harry Jerry	*Littleton, N. H.*	41 S. Main St.
Goodrich, Fred Prescott	*Dorchester, Mass.*	43 Fayerweather
Goss, Irwin James	*Berlin, N. H.*	48 Wheeler
Goss, Kenneth Huntington	*Vergennes, Vt.*	41 Wheeler
Gould, Wallace Irving	*Melrose, Mass.*	5 Wentworth
Graves, Warren Edwin	*Amesbury, Mass.*	4 Sanborn
Greene, Vernon Lorenzo	*Lowell, Mass.*	18 New Hubbard
Grieb, William Clarke	*Philadelphia, Penn.*	4 Wheeler
Griffin, James Bartlett	*Newmarket, N. H.*	8 Sanborn
Hall, Robert Austin	*Lowell, Mass.*	18 New Hubbard
Hall, Roswell Eliot	*West Upton, Mass.*	48 New Hampshire
Harlow, William Hayward	*Edgewood Park, Penn.*	19 Wheeler
Harman, Harold Soule	*Brooklyn, N. Y.*	27 Fayerweather
Harris, Cyrus Lockwood	*Brooklyn, N. Y.*	9 No. Fayerweather
Hartshorn, Elden Bennett	*Kensington, Md.*	7 New Hubbard
Harvey, Frederic Sabin	*Lowell, Mass.*	18 Crosby
Haskell, Royal Joyslin	*Rochester, Mass.*	12 Thornton
Hatch, Edward Burgess	*Chelsea, Vt.*	22 Thornton
Haven, Archie Staulcup	*Vergennes, Vt.*	12 New Hubbard
Healey, William Nelson	*Lynn, Mass.*	9 New Hampshire
Hedlund, Mauritz	*Worcester, Mass.*	3 Hubbard
Hitchcock, Charles Young	*Hanover, N. H.*	40 Fayerweather
Hitchcock, George	*Newton, Mass.*	18 New Hampshire
Hoban, Bernard Arthur	*Claremont, N. H.*	18 Wentworth
Hoban, George William	*Claremont, N. H.*	25 Reed
Hobbs, Sam	*Pelham, N. H.*	3 Swett
Holden, Clarence	*Portland, Me.*	44 Wheeler
Holway, Alvah Story	*Sandwich, Mass.*	45 Fayerweather
Horne, Ewart Gladstone	*Lawrence, Mass.*	1 Crosby
Jacobus, Harold Francis	*Turners Falls, Mass.*	19 College
Johnson, Edward Phelps	*Springfield, Mass.*	49 New Hampshire
Johnson, Truman Emmanuel	*Pigeon Cove, Mass.*	38 Fayerweather
Jones, Dana Weeman	*Malden, Mass.*	42 New Hampshire

Name	Residence	Room
Jones, Harry Malcom	*Minneapolis, Minn.*	23 So. Fayerweather
Jones, Paul Prentiss	*Windham, Vt.*	9 W. South St.
Jones, Wallace Thaxter, Jr.	*Brooklyn, N. Y.*	27 Fayerweather
Kent, William Riddell	*Passaic, N. J.*	8 Crosby
Kimball, Kenneth Chase	*West Medford, Mass.*	44 New Hampshire
King, William Wallace	*Malone, N. Y.*	7 Fayerweather
Kinne, Arthur Lyman	*Holyoke, Mass.*	17 Fayerweather
Knapp, Waldo Gray	*Middletown Spa, Vt.*	21 New Hubbard
Knight, Arthur Joshua	*Rockford, Ill.*	19 Sanborn
Knight, Lloyd Withrow	*Dorchester, Mass.*	43 Fayerweather
Knight, Morris Edward	*Bennington, N. H.*	19 Crosby
Kyle, Morton	*Plymouth, Mass.*	12 Richardson
Kyle, Walter Thomas	*Troy, O.*	4 Wheeler
Laing, Roy Collier	*Albany, N. Y.*	29 Fayerweather
Lampee, Thomas Cooper	*Chelsea, Mass.*	17 Wheeler
Leach, Roscoe Conklin	*Lakewood, O.*	31 Massachusetts
Lena, Hugh Francis	*Lawrence, Mass.*	7 Wentworth
Lewis, Guy Charles	*Lebanon, N. H.*	21 Fayerweather
Lewis, Joseph William	*Lynn, Mass.*	17 Sanborn
Lewis, Roy Everett	*Lebanon, N. H.*	21 Fayerweather
Lincoln, Jerome Waters	*Taunton, Mass.*	39 New Hampshire
Lines, Howard Burchard	*Paris, France*	11 Richardson
Linscott, Rolliston Woodbury	*Boston, Mass.*	8 Fayerweather
Locke, William Henry	*Belmont, Mass.*	33 Massachusetts
Lombard, Herbert Luther	*Bridgton, Me.*	39 Fayerweather
Lovell, John Prince	*East Weymouth, Mass.*	21 Thornton
Lovell, Lathrop Bartlett	*Whitman, Mass.*	50 Fayerweather
Lovell, Stanley Platt	*Brockton, Mass.*	22 Crosby
Lowell, Arthur Kenney	*Reading, Mass.*	9 W. South St.
Luey, Charles Rupert	*Worcester, Mass.*	13 Massachusetts
Luitwieler, Edward Billings	*Newton Highlands, Mass.*	20 Crosby
Lyons, Barrow Burnett	*New York, N. Y.*	4 Thornton
McCaffrey, Harry	*Cambridge, Mass.*	33 Massachusetts
McCarthy, Charles Edward	*Melrose, Mass.*	23 Thornton
McCarthy, John Joseph	*Peabody, Mass.*	4 Swett
McElwain, Henry Ely	*Holyoke, Mass.*	16 College
McGonagle, Joseph Sargent	*Duluth, Minn.*	10 Massachusetts
McLaughlin, Eugene Sylvester	*Yonkers, N. Y.*	10 New Hubbard
Mahlstedt, John Wallace	*Jersey City, N. J.*	15 Crosby
Mahoney, Aloysius Joseph	*Roxbury, Mass.*	Φ Δ Θ House
Marden, Harold Edwin	*Troy, N. Y.*	1 New Hubbard
Mensel, Ernest Edmund	*Northampton, Mass.*	61 Wheeler
Middlebrook, William Theophilus	*Vergennes, Vt.*	12 New Hubbard
Miller, Arthur Edgert	*Rockville, Conn.*	8 Lebanon St.
Miller, Alfred Rheinhardt	*Lawrence, Mass.*	1 Crosby

Name	Residence	Room
Miller, Lehman Wellington	*Millerton, Penn.*	17 New Hampshire
Miller, T Palmer	*Chicago, Ill.*	53 New Hampshire
Millring, Edwin Ross	*Buffalo, N. Y.*	51 Wheeler
Mitchell, Edmund Irving	*Brooklyn, N. Y.*	19 Allen St.
More, John Douglas	*Denver, Colo.*	13 So. Fayerweather
Morrill, Charles William	*Melrose, Mass.*	31 New Hampshire
Morris, Robert Saunders	*Dallas, Tex.*	11 Massachusetts
Morton, Howard Nowell	*Lowell, Mass.*	19 Wheeler
Mosier, Harold Gerard	*Cleveland, O.*	39 New Hampshire
Moyer, Paul Snyder	*Derry Church, Penn.*	5 No. Fayerw'ther
Nead, Gladwin Merl	*Norwood, Mass.*	2 Crosby
Newcomb, Chester Gilbert	*Lakewood, O.*	31 Massachusetts
Newman, Arthur Dow	*Fryeburg, Me.*	8 Swett
Newton, James Shaw	*Portsmouth, N. H.*	26 Sanborn
Newton, Roy Lester	*Somerville, Mass.*	3 Lebanon St.
Norris, William Edward	*Chicopee, Mass.*	5 So. Fayerweather
Norton, Clyde Harold	*Bradford, Mass.*	45 New Hampshire
Noyes, William Augustus	*Evanston, Ill.*	3 New Hampshire
O'Connor, Daniel Basil	*Taunton, Mass.*	7 Swett
O'Connor, Johnson	*Chicago, Ill.*	26 New Hampshire
Oneal, James Laughlin	*Chicago, Ill.*	47 Wheeler
O'Neill, Charles Irwin	*Canandaigua, N. Y.*	54 Wheeler
Orr, Caleb Worley, Jr.	*Piqua, O.*	49 Wheeler
Osgood, Ernest Staples	*Lynn, Mass.*	23 New Hubbard
Palmer, William Russell, Jr.	*Johnsonburg, Penn.*	24 Wheeler
Parks, Robert Lewis, Jr.	*Springfield, Mass.*	39 Wheeler
Parmenter, Vernon Elisha	*So. Framingham, Mass.*	35 College St.
Patten, Ernest Rollin	*Cambridge, Mass.*	11 Hubbard
Patten, Warren Stanley	*Cambridge, Mass.*	13 Wentworth
Paul, Joseph Nairn	*Wakefield, N. H.*	2 Sanborn
Perley, Lew Knowlton	*Laconia, N. H.*	35 Massachusetts
Pettingell, Ralph Dexter	*Dedham, Mass.*	2 Elm
Petts, Sanford Ferdinand, Jr.	*Winchester, Mass.*	59 Wheeler
Phelps, Andrew Jackson, 3d.	*Danbury, N. H.*	13 W. Wheelock St.
Phelps, John Harrison	*Somerville, Mass.*	26 Reed
Plumer, Bowdoin	*Briarcliff Manor, N. Y.*	8 Richardson
Plumer, Richard Charles	*Lakewood, N. J.*	10 Sanborn
Pollard, Leslie Lawrence	*Chicago, Ill.*	5½ W. South St.
Pond, Carl Furber	*Wrentham, Mass.*	17 New Hampshire
Poole, William Whipple, Jr.	*Westbrook, Me.*	12 Crosby
Power, Howard Stone	*Norwell, Mass.*	Β Θ Π House
Powers, Charles Thomas	*Lisbon, N. H.*	15 E. Wheelock St.
Preble, Blanchard Mussey	*New Brighton, N. Y.*	1 Elm
Putnam, Irving Hoban	*Dorchester, Mass.*	4 New Hubbard
Quint, Walter Southward	*West Medway, Mass.*	50 Fayerweather
Randerson, John Howard	*Albany, N. Y.*	34 New Hampshire

Name	Residence	Room
Redfield, Dudley Wells	*Hartford, Conn,*	21 Prospect St.
Reed, Mark White	*Chelmsford, Mass.*	9 Fayerweather
Remsen, Richard	*Queens, N. Y.*	1 College
Richmond, Edward Avery	*Brockton, Mass.*	3 Thornton
Roberts, Perley James	*Places, N. H.*	24 Wentworth
Robie, Brian Walter	*Baldwinville, Mass.*	2 Elm
Robins, Harrison, Jr.	*Baltimore, Md.*	3 Massachusetts
Rollins, Carle Ellsworth	*Dover, N. H.*	23 New Hampshire
Russell, Fordham Clark	*Suffield, Conn.*	49 New Hampshire
Russell, Joseph William	*Manchester, N. H.*	7a Thornton
Rust, Willard Lendell	*Manchester, Mass.*	8 Crosby
Ryan, William Ashe	*Nashua, N. H.*	47 New Hampshire
Salmon, Thomas William	*Woburn, Mass.*	12 Crosby
Sanborn, Henry Frederick	*St. Paul, Minn.*	16 No. Fayerweather
Sanborn, Tracy Lewis	*Marblehead, Mass.*	8 Sanborn
Sawyer, Edmund Read	*Lakeport, N. H.*	35 Massachusetts
Sawyer, Edward Hanlon	*Medford, Mass.*	10 Reed
Schwartz, Clarence Tompkins	*New York, N. Y.*	24–25 No. Fayerweather
Seavey, Charles Samuel	*Rochester, N. H.*	1 Bartlett
Shapleigh, William Pickering	*Melrose, Mass.*	23 Thornton
Shepard, Charles Frederic	*Aurora, Ill.*	37 Massachusetts
Sherwin, Ralph Waldo	*Fitchburg, Mass.*	40 New Hampshire
Shrigley, Wilfred Rolfe	*Boston, Mass.*	30 Richardson
Smith, Alfred Leslie	*Keene, N. H.*	29 Reed
Smith, Arthur Cushing	*Gloucester, Mass.*	2 Hubbard
Smith, Henry Wilkins	*New York, N. Y.*	22 Wheeler
Smith, Robert Shackford	*Mexico City, Mexico*	Ψ Υ House
Snow, Conrad Edwin	*Rochester, N. H.*	16 Massachusetts
Snow, Leslie Whitmore	*Rochester, N. H.*	16 Massachusetts
Snow, Mark George	*Middleboro, Mass.*	45 New Hampshire
Spencer, George Edward	*Keene, N. H.*	23 Reed
Stearns, Harold Goodhue	*Berlin, Conn.*	2 Massachusetts
Stearns, Marcus Cicero	*Oak Park, Ill.*	13 No. Fayerweather
Steen, James Alfred	*Chicago, Ill.*	36 New Hampshire
Steinert, Russell Lee	*Boston, Mass.*	12 Richardson
Stevens, Henry Bailey	*Hooksett, N. H.*	34 Reed
Stoughton, Robert Coleman	*Hartford, Conn.*	28 Massachusetts
Stowell, Ernest Alphonso	*Beachmont, Mass.*	33 Fayerweather
Stratford, Charles Harold	*Newport, R. I.*	18 Fayerweather
Sturtevant, Rollin	*Oak Park, Ill.*	13 No. Fayerweather
Sugatt, Clifton Hoyt	*Lawrence, Mass.*	1 No. Fayerweather
Swenson, Guy Andrew	*West Concord, N. H.*	24 New Hampshire
Taber, Elwyn Lowell	*Holyoke, Mass.*	1 No. Fayerweather
Taylor, Clifton Clark	*Bridgeport, Conn.*	24 Wentworth
Thomas, Louis Clarence	*Winthrop, Mass.*	3 Reed

Name	Residence	Room
Thomas, Walter Frederic	*Melrose, Mass.*	42 New Hampshire
Thompson, Charles Francis	*Mattapan, Mass.*	43 Massachusetts
Thompson, Harold Addis	*Omaha, Neb.*	36 Massachusetts
Thorne, Raymond Comstock	*Chicago, Ill.*	16 Richardson
Timbrell, William Courtney	*New Britain, Conn.*	26 New Hubbard
Tirrell, Marshall Tucker	*East Weymouth, Mass.*	15 Massachusetts
Trapp, Harry Edwin	*Laconia, N. H.*	5 Hubbard
Trewin, Harold Rector	*Cedar Rapids, Ia.*	24 Wheeler
Troy, John James	*South Boston, Mass.*	13 Massachusetts
Tuttle, David Fears	*Pine Plains, N. Y.*	8 Richardson
Twitchell, Ralph Dustin	*Randolph, Vt.*	2 Sargent Road
Tyler, Clarence Getchell	*Exeter, N. H.*	6 College St.
Underwood, Harold Percival	*Elgin, Ill.*	12 Massachusetts
Urion, Henry Kimball	*Chicago, Ill.*	36 New Hampshire
Van Dyne, Henry Bowers	*Troy, Penn.*	30 Wheeler
Viets, Henry Rouse, Jr.	*Newton, Mass.*	39 Massachusetts
Wallburg, George Fred	*Roxbury, Mass.*	8 Fayerweather
Walsh, Francis Parkinson	*Lowell, Mass.*	19 Crosby
Wanner, Harry Casper	*Terre Haute, Ind.*	47 Wheeler
Wanty, Thomas Cooley	*Grand Rapids, Mich.*	3 Richardson
Warren, Lewis Pease	*Westbrook, Me.*	7 College
Waterbury, Lewis Clement	*Oriskany, N. Y.*	37 Massachusetts
Waterhouse, Harry Freeman	*So. Framingham, Mass.*	A Δ Φ House
Watson, Homer George	*Lyndonville, Vt.*	3 So. Fayerweather
Webber, Norton Page	*Lynn, Mass.*	8 Reed
Weil, Frank Taylor	*No. Andover, Mass.*	8 Swett
Weld, Stanley Burnham	*Winchester, Mass.*	22 Crosby
Wells, Carl Samuel	*West Newton, Mass.*	39 Massachusetts
Wheeler, George Warren	*Braintree, Mass.*	54 New Hampshire
White, Cleon Bucklin	*Danvers, Mass.*	1 Richardson
White, Elliott Adams	*Melrose Highlands, Mass.*	26 Reed
White, William Lee	*Stamford, Conn.*	31 New Hampshire
Whitman, Richard Parsons	*Campello, Mass.*	14 New Hampshire
Whitmore, Nathaniel McLellan	*Brunswick, Me.*	12 New Hampshire
Whitney, Ralph Edward	*Keene, N. H.*	29 Reed
Whitney, Ralph Horace	*North Attleboro, Mass.*	18–20 Wentworth
Whittemore, Manvel	*Dover, N. H.*	23 New Hampshire
Wiggin, Forrest Lyman	*Lowell, Mass.*	9 Webster Ave.
Wood, Leonard Andrew	*Chelmsford Centre, Mass.*	10 Fayerweather
Worcester, George Franklin	*Peabody, Mass.*	28 New Hampshire
Worton, James	*So. Boston, Mass.*	25 N. Main St.
Wright, Willard Lyman	*Keene, N. H.*	36 Reed
Wylde, Russell Arthur	*Lawrence, Mass.*	39 Wheeler
Young, Maurice	*Londonderry, N. H.*	4 Elm
Zimmermann, Ernest Ludwig	*New Bedford, Mass.*	5 Reed

SUMMARY

Graduate Students	29
Seniors	205
Juniors	247
Sophomores	321
Freshmen	334
Total	1136

DISTRIBUTION BY STATES AND COUNTRIES

Massachusetts	502	California	4
New Hampshire	197	Kentucky	4
New York	106	Maryland	3
Vermont	72	Washington	3
Illinois	59	Kansas	2
Maine	35	Missouri	2
Connecticut	23	Nebraska	2
Ohio	22	South Dakota	2
New Jersey	16	Texas	2
Pennsylvania	15	Arkansas	1
Colorado	10	Delaware	1
Minnesota	10	Florida	1
Rhode Island	10	Idaho	1
Iowa	8	North Dakota	1
Michigan	8	West Virginia	1
District of Columbia	6	France	1
Indiana	5	Mexico	1

MEDICAL SCHOOL STUDENTS

FOURTH YEAR

Name	Residence	Room
Alling, Marshall Louis, B.S.	*Kensington, Conn.*	19 Maple St.
Bodwell, William Mottimer, A.B.	*Portland, Me.*	41 S. Main St.
Chase, Phillips Maurice, B.S.	*Galesburg, Ill.*	4 School St.
Connell, Thomas Michael, A.B.	*East Weymouth, Mass.*	15 S. Main St.
Larrabee, Edward Goodell	*Auburn, Me.*	19 S. Main St.
Laton, George Peavey, A.B.	*Nashua, N. H.*	15 S. Main St.
Nolan, John Hugh	*New Britain, Conn.*	3 College St.
Nolan, William Joseph	*New Britain, Conn.*	3 College St.
Pillsbury, Fitzroy Farnsworth	*Saco, Me.*	19 Maple St.
Scribner, Frederick Parker, A.B.	*Raymond, N. H.*	25 S. Main St.
Torrey, Arthur Stanley	*Gloucester, Mass.*	15 S. Main St.
Towle, Murray Hanson	*Northwood Ridge, N.H.*	M. H. M. Hospital
Uniac, Thomas Vincent	*Randolph, Mass.*	25 S. Main St.
Wilson, Homer Barnet	*Sanbornton, N. H.*	9 W. South St.

THIRD YEAR

Black, Dennis Leo, B.S.	*Nashua, N. H.*	21 School St.
Clough, William Plummer	*New London, N. H.*	5 S. Park St.
Felt, Paul Revere, A.B.	*Hillsboro Bridge, N. H.*	21 School St.
Field, Thomas Sullivan, A.B.	*Nashua, N. H.*	4 School St.
Haley, Paul	*Medford, Mass.*	9 W. South St.
Kilburn, Ira Nelson	*Holyoke, Mass.*	9 W. South St.
Langill, Morton Howard, B S.	*Hanover, N. H.*	21 Allen St.
McKendree, Charles Alphonso, A.B.	*Manchester, N. H.*	The Hanover Inn
Matthews, Frank Harrison	*Manchester, N. H.*	9 W. South St.
Reilly, Thomas Edward, B.S.	*Randolph, Mass.*	9 W. South St.
Storrs, Harry Carl, B.S.	*Hanover, N. H.*	42 S. Main St.
Trickey, Charles Lemuel	*Dover, N. H.*	41 S. Main St.

SECOND YEAR

Abbott, Charles Roger	*Sanbornton, N. H.*	15 S. Main St.
Anderson, Frank William, B.S.	*East Boston, Mass.*	23 N. Main St.
Bartlett, Walter Alonso	*Manchester, N. H.*	Shurtleff House

Name	Residence	Room
Bostick, Warren John	*Thompsonville, Conn.*	3 Lebanon St.
Davis, Stillman George	*Nashua, N. H.*	21 School St.
Fiske, Eben Winslow, A.B.	*Waltham, Mass.*	4 School St.
Forsaith, William Francis, A.B.	*Auburn, N. H.*	25 S. Main St.
Gage, Jesse Witherspoon, A.B.	*Manchester, N. H.*	15 E. Wheelock St.
Grau, LeRoy Charles	*North Adams, Mass.*	23 N. Main St.
McGinnis, Henry James	*Waterville, Me.*	9 W. South St.
Royce, Clayton Elbert, A.B.	*Woodstock, Vt.*	15 S. Main St.
Sanborn, Benjamin Eugene, Jr., A.B.	*Leavitts Hill, N. H.*	9 W. South St.
Shaw, Arthur Briggs, B.S.	*Joliet, Ill.*	25 N. Main St.
Smith, Morris Kellogg, A.B.	*Hanover, N. H.*	9 School St.
Thorpe, Burton Durrell, A.B.	*Lisbon, N. H.*	23 N. Main St.
Worthen, Thacher Washburn, A.B.	*Hanover, N. H.*	11 Webster Ave.
Young, George Yates, Jr.	*Hyde Park, Mass.*	23 N. Main St.

FIRST YEAR

Atwater, Collins	*Westfield, Mass.*	18 Maple St.
Barstow, Benjamin	*Kingston, Mass.*	2 New Hubbard
Beckett, Howard Poor	*Peabody, Mass.*	The Tavern
Bonner, Clarence Alden	*Lynn, Mass.*	3 Bartlett
Burt, Arthur Arannah	*St. Johnsbury, Vt.*	19 W. Wheelock St.
Clarke, George Joshua	*Jamaica, Vt.*	9 S. Park St.
Daly, Edmund Joseph	*Bayonne, N. J.*	5½ W. South St.
Dunbar, Clarence Eugene	*Manchester, N. H.*	47 Fayerweather
Hanson, John Bennett	*Warren, O.*	25 N. Main St.
Holzer, William Francis	*Arlington, N. J.*	17 Thornton
Leete, Edward Don	*Concord, N. H.*	5 College St.
Lewis, Frank Edward, A.B.	*Auburndale, Mass.*	25 N. Main St.
Vivian, William James	*New Britain, Conn.*	2 Sargent Rd.
Wesley, John Willard	*St. Johnsbury, Vt.*	19 W. Wheelock St.
Woodman, Arthur Beattie	*Bath, N. H.*	8 Lebanon St.

THAYER SCHOOL STUDENTS

SECOND YEAR

Name	Residence	Room
Baine, George Fredson	*Clinton, Mass.*	1 Richardson
Barnes, Arthur Bradley, A.B.	*Lowell, Mass.*	21 Crosby
Danforth, Richard Stevens, B.S.	*Gardiner, Me.*	X Φ House
Hazen, Richard, A.B.	*Wilder, Vt.*	32 Fayerweather
Knight, Ralph Gardner, B.S.	*Randolph, Mass.*	21 Allen St.
Lincoln, Ernest Avery, B.S.	*Fall River, Mass.*	Ford Block
Marsden, Raymond Robb, B.S.	*Utica, N. Y.*	32 Fayerweather
Munkelt, Frederick Herman, B.S.	*Brooklyn, N. Y.*	1 New Hampshire
Richards, Earl Thomas, B.S.	*Holyoke, Mass.*	6 College St.
Richardson, Charles Potter, B.S.	*Dover, N. H.*	6 College St.
Rugg, Harold Ordway, B.S.	*Fitchburg, Mass.*	40 S. Main St.
Ruggles, Sidney Lee, A.B.	*Plainfield, N. H.*	9 S. Park St.
Stickney, Park Washburn, B.S.	*Fargo, N. D.*	Shurtleff House
Stone, James Hammond, B.S.	*Concord, N. H.*	2 The Tavern
Thompson, Philip Laforrest, B.S.	*St Johnsbury, Vt.*	Φ Δ Θ House
Weston, Fred Sampson, B.S.	*Middleboro, Mass.*	2 The Tavern
Winkley, Willard Choate, B.S.	*Dover, N. H.*	Shurtleff House

INTERMEDIATE YEAR NON-RESIDENT GROUP

(Students on leave of absence in field and office practice.)

Cook, Frank Gordon, B.S.	*Concord, N. H.*
Cushman, Oliver Wesley, B.S.	*Manchester, N. H.*
English, Frederick Kent, B S.	*Wareham, Mass.*
English, Harold Lewis, B.S.	*Lisbon, N. H.*
Hazen, Ralph William, B S.	*Bethlehem, N. H.*
Hill, Roger Frank, B S.	*Tilton, N. H.*
Luck, Charles Arthur	*Toledo, O.*
Morey, Harold Arthur, B.S.	*Wilder, Vt.*
Rich, Walter Clarence, B.S.	*North Concord, Vt.*
Ross, Carl Wilbur, A.B.	*Calais, Me.*
Rutherford, Alva Bruce, B.S.	*Waddington, N. Y.*
Schilling, Frederick Edward, B.S.	*New Britain. Conn.*
Wheeldon, Albert James, B.S.	*Worcester, Mass.*

FIRST YEAR

Name	Residence	Room
Austin, Frank Stearns	*Lynn, Mass.*	8 New Hampshire
Ayer, Benjamin	*Belmont, Mass.*	34 Wheeler
Beebe, John Cleaveland	*Hampden, Mass.*	16 Thornton
Bradley, Delmont Rockwood	*Gloucester, Mass.*	8 New Hampshire
Buxton, Arthur Leet	*Springfield, Mass.*	10 College St.
Childs, John Warren	*Henniker, N. H.*	41 S. Main St.
Clement, Ralph Byron	*Chelsea, Mass.*	16 Thornton
Dudley, Benjamin Harmon	*Malone, N. Y.*	12 So. Fayerweather
Gould, Robert Rutledge	*Portland, Conn.*	46 New Hampshire
Hansbury, John Edward	*Beverly, Mass.*	4 Bartlett
Hanson, Fred Earnest, A.B.	*Springvale, Me.*	41 S. Main St.
Hanson, Fred Sumner, Jr.	*Somerville, Mass.*	1 Thornton
Herrick, Arthur Lowell	*Gloucester, Mass.*	42 Wheeler
Hibbard, Hazen Kimball	*Newbury, Vt.*	Ford Block
Leary, Fred Gray	*New Hartford, N. Y.*	Thayer Building
Marshall, Leon Craig	*Hanover, N. H.*	38 S. Main St.
Readey, Maurice	*Manchester, N. H.*	43 New Hampshire
Reed, Dwight Thornton	*Portsmouth, N. H.*	9 Elm
Smith, Winthrop Lamson	*Brooklyn, N. Y.*	3 Wheeler
Storer, Perley Nelson	*Portsmouth, N. H.*	11 Crosby
Ward, Harry Abbott	*Lynn, Mass.*	54 New Hampshire
Whitmore, Harold Cushing	*Lynn, Mass.*	Observatory

TUCK SCHOOL STUDENTS

SECOND YEAR

Name	Residence	Room
Amidon, Luey Earle Cleveland, B.S.	*Millers Falls, Mass.*	Shurtleff House
Blakeley, Joseph Wing, B.S.	*Montpelier, Vt.*	31 Wheeler
Chedel, Robert Whitcomb, A.B.	*Randolph, Vt.*	Shurtleff House
Gray, John Harvey, B.S.	*Chicopee, Mass.*	Shurtleff House
Hobart, Harold Sawtelle, A.B.	*Nashua, N. H.*	Shurtleff House
Huebener, Curtis Edward, B.S.	*Dorchester, Mass.*	Shurtleff House
Klahr, Robert Augustus	*Bloomville, O.*	Shurtleff House
Knox, Benjamin Clement, A.B.	*Manchester, N. H.*	Shurtleff House
Lane, Henry Richardson, A.B.	*New York, N. Y.*	10 College
McMillan, Arthur Douglas, A.B.	*Rockport, Mass.*	Shurtleff House
Worcester, William Warner, B.S.	*Hollis, N. H.*	Shurtleff House

FIRST YEAR

Bird, Francis Henry	*Wellesley Hills, Mass.*	9 Thornton
Blake, Clifford Austin	*Westboro, Mass.*	K K K House
Brown, Walter Edward	*Brimfield, Mass.*	32 Reed
Burbank, Harold Hitchins	*Calais, Me.*	11 Sanborn
Cummings, Ralza Milon	*Concord, N. H.*	7 Richardson
Dillingham, Herman Louis	*Milford, Mass.*	Δ K E House
Fardy, Thomas Albert	*Randolph, Mass.*	50 New Hampshire
Fearing, William Ingraham	*Newton, Mass.*	21 Richardson
Ford, Edward Chandler	*Marshfield, Mass.*	16 Crosby
Goodrich, Ernest Herman	*Portland, Me.*	31 Wheeler
Hall, Harold Steward	*Hudson, Mass.*	48 New Hampshire
Hammond, Karl Raymond	*Nashua, N. H.*	X Φ House
Howard, Eliot Remsen	*Hyde Park, Mass.*	22 Sanborn
*Leavitt, Arthur Howland, A.B.	*Spencer, Mass.*	5 W. South Street
McCurdy, Allan Morrill	*Andover, Mass.*	47 Fayerweather
Mason, Jasper Karl	*Calais, Me.*	1 New Hampshire
Norris, Edward Plumer	*Portsmouth, N. H.*	11 Crosby
Noyes, Alvin Clark	*Bethlehem, N. H.*	46 New Hampshire
O'Brien, Francis James	*North Andover, Mass.*	1 Proctor
Rich, Edward Dillon	*Boulder, Colo.*	25 Lebanon St.
*Vietor, August Frederick, A.B.	*Lawrence, Mass.*	Δ T Δ House

* Special course.

GENERAL SUMMARY OF STUDENTS

Dartmouth College	1136
Medical School	58
Thayer School	52
Tuck School	32
Total (deducting for names inserted twice)	1233
Summer School (session of 1908)	115

DISTRIBUTION BY STATES AND COUNTRIES

Massachusetts	529	California	4
New Hampshire	232	Kentucky	4
New York	111	Maryland	3
Vermont	82	Washington	3
Illinois	61	Kansas	2
Maine	42	Missouri	2
Connecticut	29	Nebraska	2
Ohio	25	North Dakota	2
New Jersey	17	South Dakota	2
Pennsylvania	15	Texas	2
Colorado	10	Arkansas	1
Minnesota	10	Delaware	1
Rhode Island	10	Florida	1
Iowa	8	Idaho	1
Michigan	8	West Virginia	1
District of Columbia	6	France	1
Indiana	5	Mexico	1

REQUIREMENTS FOR ADMISSION

ALL CANDIDATES FOR ADMISSION to College must offer satisfactory testimonials of good moral character; and those who have been members of other colleges must present certificates of regular dismission.

For admission without condition a candidate must secure credit for twenty-two points; a point represents a course of study of at least three periods a week for a year; the credit by points is indicated by figures in parentheses after the courses.

RATING OF THE COURSES

Greek, 3 yrs. (5)
Latin, 2 yrs. (3)
Latin, 4 yrs. (6)
English (4)
Modern Language, 1 yr. (1)
Modern Language, 2 yrs. (3)
History I, Ancient (2)
History II,
English and American (2)
History III,
Mediæval and Modern (1)
Elementary Algebra (2) } Math. I (4)
Plane Geometry (2) }
Advanced Algebra }
Solid Geometry } Math. II (2)
Plane Trigonometry }
Physics (1)
Chemistry (1)
Biology (1)

All candidates for the A.B. degree must present English (4), History I or History II (2), Mathematics I (4), and Latin (6), aggregating 16 points; for the remaining 6 points a candidate may elect from: Greek (5), Modern Language, 1 yr. (1), Modern Language, 2 yrs. (3), History I or History II (2), History III (1), Mathematics II (2), a Science (1). (Candidates presenting Greek must present History I.)

All candidates for the B.S. degree must present English (4), History I or History II (2), Mathematics I (4), and a Modern Language, 2 yrs. (3), aggregating 13 points; for the remaining 9 points a candidate may elect from: Latin, 2 yrs. (3), Modern Language, 1 yr. (1), a Second Modern Language, 2 yrs. (3), History I or History II (2), History III (1), Mathematics II (2), Chemistry (1), Physics (1), Biology (1).

Tabulation of Requirements

Prescribed

A.B. Degree		B.S. Degree	
English	(4)	English	(4)
Mathematics I	(4)	Mathematics I	(4)
History	(2)	History	(2)
Latin	(6)	Modern Language, 2 yrs.	(3)
	(16)		(13)

Elective

Six Points must be Elected		Nine Points must be Elected	
Greek	(5)	Latin, 2 yrs.	(3)
Modern Language, 1 yr.	(1)	Modern Language, 1 yr.	(1)
Modern Language, 2 yrs.	(3)	Modern Language, 2 yrs.	(3)
Mathematics II	(2)	Mathematics II	(2)
History I, Ancient	(2)	History I, Ancient	(2)
History II, English and American	(2)	History II, English and American	(2)
History III, Mediæval and Modern	(1)	History III, Mediæval and Modern	(1)
Physics	(1)	Physics	(1)
Chemistry	(1)	Chemistry	(1)
Biology	(1)	Biology	(1)

Of the six elective points for the degree of A.B., a candidate must present at least *three* in language.

Of the nine elective points for the degree of B.S., a candidate must present *two* in science and may present two only in history.

Requirements in Brief

English. — The New England College Entrance Requirements in reading and study, — three periods per week for four years.

History I. — Ancient History, — three periods per week for two years (or five periods per week for one year).

History II. — English History and American History, — three periods per week for two years (or five periods per week for one year).

History III. — European History, Mediæval and Modern, — three periods per week for one year.

Mathematics I. — Algebra through the binomial theorem for posi-

tive integral exponents, and Plane Geometry. Review of Algebra in last year.

Mathematics II. — Algebra through Logarithms, Plane and Solid Geometry, and Plane Trigonometry. Review of Algebra.

Latin. — Cæsar, four books; Cicero, six speeches; poetry, 6000 lines; Latin Composition and sight reading.

Latin (two years). — Latin Lessons; Cæsar, four books, with elementary prose composition.

Greek. — Anabasis, four books; 1500 lines of Homer; Greek composition and sight reading.

French. — Five periods per week for two years. Translation of at least 800 pages into English. French composition.

German. — Five periods per week for two years. Translation of at least 400 pages into English. German composition.

Chemistry. — Three periods per week for one year, one-half in laboratory.

Physics. — Three periods per week for one year, with at least forty experiments in laboratory.

Biology. — Three periods per week for one year; Zoölogy, one-half year, Botany, one-half year, or either, one year.

SUBJECTS WITH SPECIFICATIONS

ENGLISH

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation.

English Grammar

To secure the first end, training in grammar and the simpler principles of rhetoric, and the writing of frequent compositions are essential. The candidate must be able to spell, capitalize, and punctuate correctly. He must show a practical knowledge of the essentials of English grammar, including ordinary grammatical terminology, inflections, syntax, the use of phrases and clauses; a thorough training in the construction of the sentence; and familiarity with the simpler principles of paragraph division and structure.

To test the candidate's command of clear and accurate English, he will be required to write brief compositions upon one or more topics

drawn from the assigned readings in English A, as indicated below. After 1910 the candidate will also be required to write upon one or more subjects of ordinary experience or knowledge, not taken from the prescribed books.

READING

To secure the second end, the reading of a certain number of books is prescribed. The list is intended to give the candidate the opportunity of reading, under intelligent direction, a number of important pieces of literature. The prescribed books are divided into two groups as follows:

A

The candidate should read the books prescribed below with a view to understanding and enjoying them. He will be expected to show a reasonable degree of familiarity with their substance. The form of examination will usually be the writing of paragraphs on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper.

For students entering in 1909:[1] Shakespeare's *The Merchant of Venice* and *Julius Cæsar;* Bunyan's *The Pilgrim's Progress* (part I); the *Sir Roger de Coverly Papers* in the *Spectator;* Scott's *The Lady of the Lake* and *Ivanhoe;* Irving's *Sketch Book;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* George Eliot's *Silas Marner.*

For students entering in 1910 and 1911:[1] Shakespeare's *Merchant of Venice* and *Julius Cæsar;* the *Sir Roger de Coverly Papers* in the *Spectator;* Franklin's *Autobiography;* Scott's *Lady of the Lake* and *Ivanhoe;* Hawthorne's *The House of the Seven Gables;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Dickens' *A Tale of Two Cities.*

For students entering in 1912:[1] Shakespeare's *As You Like It* and *Julius Cæsar;* Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Dickens' *A Tale of Two Cities;* George Eliot's *Silas Marner;* Irving's *Sketch Book;* Scott's *The Lady of the Lake;*

[1] The lists for the classes entering in 1909, 1910, 1911, and 1912 are selected from the lists adopted by the Conference on Uniform Entrance Requirements in English, at meetings held in New York City on February 22, 1905, and February 22, 1908. Candidates may present other selections from that list, provided they notify the Dean, on or before the first day of February preceding the examination, of the substitutions they wish to make.

Byron's *Mazeppa* and *The Prisoner of Chillon;* Macaulay's *Lays of Ancient Rome.*

B

The candidate should read the books prescribed below with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination is not designed, however, to require minute drill in difficulties of verbal expressions, unimportant allusions, and technical details.

For students entering in 1909, 1910, and 1911: Shakespeare's *Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

For students entering in 1912: Shakespeare's *Macbeth;* Milton's *Comus, L'Allegro,* and *Il Penseroso,* or Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address,* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

HISTORY (including Historical Geography)

Either History I or History II — [candidates for the A.B. degree entering with Greek *must* present History I]:

I. *Ancient History.* — This may cover the general field to 800 A.D.; but must in any case cover at least Greek History to the death of Alexander, with due reference to Greek life, literature, and art, and Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History.* — English History, with due reference to social and political development; American History, with the elements of Civil Government.

In either of the above courses the following requirements must be met: (1) at least three recitations per week for two years (or five recitations per week for one year); (2) such general knowledge of the whole course as may be acquired from the study of accurate text-books, amounting to not less than 600 pages; (3) a fuller knowledge derived from suitable additional reading, in books of a less elementary nature, amounting to at least 600 pages; (4) comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise

judgment as well as memory; (5) geographical knowledge tested by the location of places, movements, and territorial changes on an outline map (by physical features wherever possible, as well as by political features).

III. *European History, Mediæval and Modern.* — At least three recitations per week for one year; an accurate text-book of at least 300 pages; suitable additional reading, in less elementary books, amounting to at least 300 pages; comparisons, and exercise of judgment; geographical knowledge.

A Syllabus of History for Secondary Schools, prepared by a Committee of the New England History Teachers' Association, is recommended as an outline of these courses, giving topics, references, lists of books, and practical suggestions for carrying into effect the forms of work required above. It will be made the basis for the examination questions on both text-book and additional reading.

MATHEMATICS I

Thorough drill in Arithmetic is of vital importance in the study of Mathematics. Facility in the use of integral and fractional numbers should be acquired in the lower grades and retained by the use of numerical examples through the high-school course. Short processes and decimals including the metric system should be used habitually. It is assumed that this fundamental work has been done.

Algebra. — The fundamental operations; factoring, including the finding of highest common factor, lowest common multiple, and roots; fractions, including ratio and proportion; equations of the first and second degrees, both numerical and literal, containing one or more unknown quantities, with applications; radicals, including the square root of polynomials and numbers; exponents, fractional and negative; simple cases of equations with one or more unknown quantities which can be solved by the methods of simple or quadratic equations, including radical equations; the binomial formula with n a positive integer; the formulae for the nth term and the sum of n terms of arithmetic and geometric progressions, with applications. It is expected that throughout the course problems will be solved involving the every-day facts and principles of business, mensuration, and physics, and that graphical methods and illustrations will be employed, particularly in connection with the solution of linear and the simpler forms of quadratic equations.

Plane Geometry. — The ordinary propositions relating to rectilinear figures, the measure of angles, proportion and similar figures, regular

polygons, circles, areas, constructions and computations involving applications of the more important propositions, original propositions, and problems in loci.

MATHEMATICS II

Algebra. — Including equations in quadratic form, inequalities, indeterminate equations, proportion, variation, the three progressions, binomial formula for any exponent, convergency of series, undetermined coefficients, and logarithms as treated in a college algebra.

Geometry. — Solid Geometry, the ordinary propositions relating to right lines and planes in space, to the measurements of prisms, cylinders, pyramids, cones, frustums, the sphere and portions of its surface and volume, the solution of problems involving the computation and comparison of the surfaces and volumes of the cylinder, cone, frustum of cone, sphere, and their principal inscribed and circumscribed solids, and problems in loci.

Trigonometry. — Plane Trigonometry, the theory of the functions and their relations so far as to furnish formulae for the computation of the tables and the solution of right and oblique triangles, the use of logarithmic and trigonometric tables in the solution of problems.

LATIN

A knowledge of the Latin language sufficient to enable the student —

I. To translate at sight passages of Latin prose and verse, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Cicero's speeches against Catiline, ii, iii, and iv, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Latin prose a passage of connected English narrative, based on some portion of the Latin prose works usually read in preparation for college, and limited to the subject-matter of those works.

Careful attention should be given from the beginning to the correct pronunciation of Latin words, both as to quantity and to syllabication. Such pronunciation greatly aids the study of prosody, and is indispensable to the correct reading of Latin poetry.

The examination, except as stated in II above, will be directed to testing the candidate's knowledge of Latin as a whole, rather than his knowledge of special works which he has studied. It is believed that

the study of Latin for four years with five lessons a week, covering an amount equal to four books of Cæsar, six speeches of Cicero, and 6000 lines of poetry, preferably 4500 lines of Virgil and 1500 lines of Ovid, together with constant attention to Latin composition and to reading at sight, will be sufficient to give the required proficiency.

The papers set by the College Entrance Examination Board which will satisfy the above requirement are a i, a ii, b, c, and m, for the preliminary examination, and l, p, and q, or l, p, and dq, for the advanced examination.

GREEK

A knowledge of the Greek language sufficient to enable the student —

I. To translate at sight simple passages of Attic prose and to answer questions on ordinary forms, constructions, and idioms.

II. To pass a thorough examination on Xenophon's Anabasis, Books i and ii directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Greek prose a passage of connected English narrative, based on a passage from Xenophon's Anabasis, Books i and ii.

IV. To pass a thorough examination on 1500 lines of Homer, including questions on prosody. The regular examination will be on the first three books of the Iliad, but candidates who present other parts of Homer will be given a special paper on the Homer presented, if they apply to the Dean four weeks before the examination.

V. To read aloud in the Greek, with correct pronunciation, with full expression of the sense of the passage, and, in poetry, with correct expression of the rhythm.

It is believed that the study of Greek for three years with five periods a week, covering an amount equal to four books of Xenophon's Anabasis and 1500 lines of Homer, together with constant attention to Greek composition and to reading at sight, will be sufficient to give the required proficiency.

Candidates for admission by certificate must present certificates covering Books i and ii of Xenophon's Anabasis, Books iii and iv of the Anabasis or their equivalent in other Attic prose, and 1500 lines of Homer.

The papers set by the College Entrance Examination Board which will satisfy the above requirement are a i, a ii, and b, for the preliminary examination, and c, f, and g, for the advanced examination.

FRENCH

I. A thorough knowledge of forms and a familiarity with the essentials of French syntax.

II. The ability to translate at sight ordinary French prose into simple, idiomatic English.

III. The ability to translate into French a connected passage of English based on the text read.

IV. The ability to write ordinary French at dictation.

V. The ability to pronounce French well.

The following course of study is merely suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

Drill in pronunciation. The rudiments of grammar, including the conjugation of regular verbs and of the more frequent irregular verbs; the inflection of nouns and adjectives (except the rare forms); the uses of articles, pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax. The translation into French of simple English sentences illustrating the common forms and principles of grammar. The reading of about 300 duodecimo pages of simple French prose, with constant practice in turning into French easy variations of the text read. Oral translation and writing of French at slow dictation.

The following texts are suggested as suitable reading for the first year: Voltaire, *Zadig;* Mérimée, *Colomba;* Halévy, *l'Abbé Constantin;* Jules Verne, *le Tour du monde en quatre-vingts jours;* About, *le Roi des montagnes;* Lamartine, *Jeanne d'Arc;* Labiche and Martin, *le Voyage de M. Perrichon;* Malot, *Sans famille;* Legouvé and Labiche, *la Cigale chez les fourmis;* Erckmann-Chatrian, *l'Histoire d'un paysan, le Conscrit de 1813;* Dumas, *la Tulipe noire.*

SECOND YEAR — FIVE LESSONS A WEEK

By this time the pupil should be familiar with forms, and the grammar work should be confined to the study of syntax, with composition exercises illustrating its essential rules.

About 550–600 duodecimo pages of French prose of ordinary difficulty should be read, and the pupil should be drilled in pronunciation, in oral and written translations into French of variations of the text read, in oral translation and writing of French from dictation, and, in addition, he should be required to give, in French, paraphrases and abstracts of portions of the reading matter.

The following texts are suggested as suitable reading for the second year: Loti, *Pêcheur d'Islande;* Augier, *le Gendre de M. Poirier;* Balzac, *le Curé de Tours;* Daudet, *Contes choisis;* Molière, *l'Avare, le Bourgeois gentilhomme;* Sandeau, *Mademoiselle de la Seiglière;* Vigny, *la Canne de jonc;* Sand, *la Mare au diable.*

GERMAN

I. The ability to pronounce German well.

II. The ability to write ordinary German at dictation.

III. The ability to translate at sight a passage of German prose of ordinary difficulty.

IV. The ability to put into German a connected passage of simple English paraphrased from a given German text, or to turn simple English sentences into German without a model.

V. The ability to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

VI. The ability to translate a passage of classical literature, to answer questions on the subject-matter and the life of the author, and to give character sketches of the main characters. The passage is usually taken from Goethe's *Hermann und Dorothea.*

The following course of study in German is merely suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

(1) Pronunciation — Careful attention should be given to the acquisition of a correct pronunciation.

The imitation of the teacher's pronunciation will be the chief factor in the problem; dictation and a knowledge of the rudiments of phonetics will be found helpful. The attention of the teacher is called to Hempl's German Orthography and Phonology, and to Grandgent's German and English Sounds.

(2) Memorizing and frequent repetition of easy colloquial sentences (with variations). The object is to develop feeling for the language.

(3) Rudiments of Grammar (thoroughly learned and studied with exercises).

Declension of articles, nouns (taken from the language of every-day life), adjectives, pronouns. Comparison of adjectives. Auxiliary verbs (of tense and mood). Weak verbs, the more common strong verbs, the more common prepositions and the cases they govern, the more common conjunctions. Sentence order. Elementary syntax.

(4) Reading (narrative prose with some poetry), about 150 pages: either (a) a Reader with graduated selections followed by short stories, or (b)

Märchen and short stories in graduated texts. Storm's *Immensee*, Zschokke's *Der zerbrochene Krug*, *Einer muss heiraten*, and similar stories and plays are recommended.

(5) Paraphrasing — Constant practice in translating into German easy variations upon sentences in the reading lesson.

SECOND YEAR — FIVE LESSONS A WEEK

(1) Reading (narrative prose chiefly, a comedy and one classic), 250–300 pages.

The following course is suggested: —

(*a*) Short stories — Heyse: *L'Arrabbiata*; Riehl: *Vierzehn Nothelfer*. (b) Selection from historical prose — in Hoffmann's *Historische Erzählungen* the selection *Der deutsch-französische Krieg*. (c) A comedy — Benedix: *Dr. Wespe* or *Der Prozess*. (d) One classic — Goethe: *Hermann und Dorothea*. (e) 50 pages of Freytag's prose.

(2) Paraphrasing — Constant practice in variations upon texts read.

(3) Grammar — (a) Drill upon essentials (continued). (b) Enlargement of grammatical knowledge. Thorough review.

(4) Word-formation — Rudiments.

CHEMISTRY

Acquaintance by laboratory work with elementary processes and with the properties of substances common in Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, or equivalent. A certified note-book of laboratory work must be presented at the time of examination. The candidate should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least one hundred and ten hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

NOTE. — Certification must be careful enough to identify the work as done by the student. Certification on the cover, or on a single leaf of a loose-leaf note-book, will not be accepted. Each loose leaf should be signed by the student and stamped or otherwise identified by the instructor.

PHYSICS

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. In both recitation and laboratory exercises, some one of the better text-books or manuals for secondary schools should be followed and completed. The note-book should bear the certification of the instructor and be presented for inspection at the time of the entrance examinations to College.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

BIOLOGY

I. *Zoölogy* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Work like that outlined in Needham's Elementary Lessons in Zoölogy, Davenport's Introduction to Zoölogy, or Colton's Zoölogy, Descriptive and Practical, will be acceptable.

II. *Botany* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work on the natural history of plants.

The candidate must present a note-book containing the notes and drawings he has made, and bearing the endorsement of his teacher certifying that the book is a true record of the pupil's own observations. The presentation of an herbarium is not required, and no weight will be given this evidence of work done unless it illustrates some definite problem in plant relationship.

No work necessitating the use of a compound microscope is required.

Such texts as Bergen and Davis' Principles of Botany or Coulter's Plant Studies will be acceptable.

Students entering on certificate in Chemistry, Physics, or Biology are not required to present their note-books, if their certificate covers the laboratory work.

METHODS OF ADMISSION

Every candidate for admission must furnish from the principal of the school which he has attended, or from the tutor with whom he has studied, a testimonial certifying to good moral character and to sufficient preparation for undertaking college work. Suitable blanks may be obtained by application at the office of the Dean.

Admission to college may be obtained by one of the following methods: By examination, by certificate, or by a combination of the two methods.

I. ADMISSION BY EXAMINATION

Two regular examinations for admission to the Freshman Class are held each year, the June examination in the second week preceding Commencement, June 14–19, and the September examination just before the opening of the College, September 16–21.

JUNE EXAMINATION

As announced in the catalogue of 1907–1908, the College will not offer examinations in June, but will depend upon the examinations conducted by the "College Entrance Examination Board," which will be held June 14–19, 1909. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, Post-office Sub-Station, 84 New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Secretary on or before Monday, May 31, 1909; applications for examination

elsewhere in the United States or in Canada must be received on or before Monday, May 24, 1909; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 10, 1909. Applications received later than the dates named above will be accepted when it is possible to arrange for the examination of the candidates concerned, but only upon the payment of five dollars in addition to the regular fee.

The regular examination fee is five dollars for all candidates examined in the United States and Canada, and fifteen dollars for all candidates examined outside of the United States and Canada. This fee must be paid by all applicants, whether they intend to present themselves for examination in one subject or in several subjects. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

A list of the places at which the examinations are to be held in June, 1909, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary not later than February 1.

It is expected that the examinations of this Board will be held in Hanover.

COLLEGE ENTRANCE EXAMINATION BOARD

Dartmouth College is a member of the College Entrance Examination Board, and accepts the entrance examinations of this Board in so far as these examinations meet the requirements of the College; in order to meet these requirements for admission, candidates must pass satisfactory examinations in the following subjects, as designated by the Board examinations, so as to secure 22 points credit according to the rating given below.

Requirements for the A.B. Degree

16 points prescribed	English a and b	4 points	
	Mathematics a	2 "	
	Mathematics c	2 "	
	History a	2 "	
	Latin a, i and ii, b, c, dq, l, m, and p	6 "	16

6 points elective	Greek a, i and ii, b, c, f, and g	5 points	
	French a	3	"
	German a	3	"
	History b, c, or d	2	"
	Mathematics b, d, and f	2	"
	Physics	1	"
	Chemistry	1	"
	Botany	1	"
	Zoölogy	1	"

Requirements for the B.S. Degree

13 points prescribed	English a and b	4 points		
	Mathematics a	2	"	
	Mathematics c	2	"	
	History a, b, c, or d	2	"	
	French a or German a	3	"	13
9 points elective	Latin a, i and ii, and b	3	"	
	French a / German a (not presented above)	3	"	
	History a, b, c, or d (not presented above)	2	"	
	Mathematics b, d, and f	2	"	
	Chemistry	1	"	
	Physics	1	"	
	Botany	1	"	
	Zoölogy	1	"	

Of the six elective points for the degree of A.B., a candidate must present at least *three* in language.

Of the nine elective points for the degree of B.S., a candidate must present *two* in science and may present two only in history.

SEPTEMBER EXAMINATIONS

Entrance examinations are offered by the College in September as heretofore, and only in Hanover.

Candidates for these examinations must present themselves with their credentials from the preparatory school or private tutor at the Dean's office for registration and certificate of admission to the examinations one-half hour before the first examination to be taken.

ORDER OF EXAMINATIONS IN SEPTEMBER, 1909

History III	1.30–3.30 P. M.,	Sept.	16
Preliminary Greek, Biology	4.00–6.00 P. M.,	"	16
Elementary French	8.00–10.00 A. M.,	"	17
Elementary German	10.30 A. M.–12.30 P. M.,	"	17
Chemistry	1.30–3.30 P. M.,	"	17
Elementary Algebra	4.00–6.00 P. M.,	"	17
Latin, Preliminary and Two Years	8.00–10.00 A. M.,	"	18
Trigonometry	10.30 A. M.–12.30 P. M.,	"	18
English	1.30–3.30 P. M.,	"	18
Plane Geometry	4.00–6.00 P. M.,	"	18
History II	8.00–10.00 A. M.,	"	20
Advanced Latin	10.30 A. M.–12.30 P. M.,	"	20
Solid Geometry	1.30–3.30 P. M.,	"	20
Advanced German	4.00–6.00 P. M.,	"	20
Advanced Algebra	8.00–10.00 A. M.,	"	21
Advanced French	10.30 A. M.–12.30 P. M.,	"	21
History I	1.30–3.30 P. M.	"	21
Advanced Greek, Physics	4.00–6.00 P. M.	"	21

Candidates presenting Greek or Latin (except two years) for admission must take both the preliminary and the advanced examinations; candidates presenting one year of French or German will take the elementary examinations; those presenting two or more years of French or German will take both the elementary and advanced examinations.

Each candidate taking an examination in Chemistry, Physics, or Biology must present a laboratory note-book certified by his teacher. Note-books will be returned to owners at any time within a year.

A candidate for admission may take all the examinations at one time, or he may divide them between June and September of the same year, but it is expected that every candidate will conform strictly to the appointed schedule as to time and place for the several examinations. Certificates will be issued for such subjects as are passed at each examination, and these certificates will be accepted for admission at any time within a year.

The supply of old examination papers which heretofore have been sent free to any applicant has been exhausted. The June examination papers of 1906, 1907, and 1908 are issued in pamphlet form, and will be sent to any address on receipt of fifteen cents in stamps.

PRELIMINARY AND ELEMENTARY EXAMINATIONS

Candidates for admission are allowed to take examinations on a part of the requirements one year before matriculation, according to the following specifications: —

Latin: 1. The translation at sight of simple prose and verse.

2. A thorough examination on Cicero's speeches against Catiline ii, iii, and iv, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Latin Prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Greek: 1. The translation at sight of simple Attic prose.

2. A thorough examination on Xenophon's Anabasis, Books i and ii, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Greek prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

3. An examination on Xenophon's Anabasis, Books iii and iv, or on other Attic prose, equivalent in amount and difficulty to these books, with questions on construction and subject matter.

French: Grammar, including composition, and translation of works read during first year, as indicated under the requirements in French.

German: Grammar, including composition, and translation of works, as indicated under the first year requirements in German.

In these examinations no conditions will be imposed, and a failure in any subject will necessitate the re-examination of the candidate in the department to which that subject belongs.

Candidates who have passed the examination will receive certificates for the work done, and these certificates, when presented in the following year, but not later, will be received in place of an examination, in the subjects mentioned in them.

In addition to the above partial examinations candidates are advised to anticipate the final examinations in Plane Geometry, History, and the sciences. Candidates who intend to present Mathematics II are advised to take examinations in Elementary Algebra and Plane Geometry a year in advance of entering college.

II. ADMISSION BY CERTIFICATE

In place of examinations, certificates will be accepted from preparatory schools which have been approved for the certificate privilege of admission. Blank certificates may be obtained from the Dean of the Faculty after May first of each year.

All preparatory schools in New England must be approved by the New England College Entrance Certificate Board; this Board is an association of colleges established for the purpose of receiving, examining, and acting upon all applications of schools in New England which ask for the privilege of certification. This association includes Amherst, Boston University, Bowdoin, Brown, Dartmouth, Mount Holyoke, Smith, Tufts, University of Maine, University of Vermont, Wellesley, Wesleyan, and Williams. Certificates are in all cases passed upon, as heretofore, by the individual college, but students are received on certificate from such schools only as have been approved by this Board. All schools in New England which desire the certificate privilege should apply to the Secretary of the Board, Prof. Nathaniel F. Davis, 159 Brown St., Providence, R. I., before April first.

All schools outside of New England which desire the certificate privilege, should send to the Dean of the Faculty for a printed form of application, containing the conditions for the approval of a school and the requirements which should be met. All applications for approval by the Faculty of the College should be made before *May first.* Approval of a school will be withdrawn whenever it appears that the work of the school does not reach the standard desired by the College.

Certificates should meet the requirements in full; but a certificate will be accepted if it covers two-thirds of the requirements, and the candidate will be examined on the remainder; if the certificate fails to cover at least two-thirds of the requirements, the candidate must be examined in full. When a candidate has received his preparation in more than one school, the principal of each school must certify to the work done in his school.

Certificates must be made out on blanks furnished by the Dean of the Faculty, and should be filed at his office before *July first.*

No certificate will be accepted from a private tutor.

School diplomas will not be accepted for admission to College.

III. ADMISSION BY REGENTS' CREDENTIALS

Academic Diplomas (seventy counts) issued by the Regents of the University of the State of New York are accepted in place of examinations in all subjects required for admission which are covered by such credentials.

No other credentials (including pass cards and certificates issued by the Regents) are accepted unless they are presented by the holder of a Regents' Academic Diploma.

IV. ADMISSION TO ADVANCED STANDING

Candidates for advanced standing are examined in those studies which have been pursued by the class which they propose to enter, or in others equivalent to them, in addition to the subjects required for admission. Certificates from schools are not accepted for studies which are offered for advanced standing.

Students from other Colleges which require the same or equal terms of admission with Dartmouth and which offer the same or equal courses of study, will be credited with the work for which they bring the record of full standing in their letters of transfer. The following credentials are necessary: a letter of honorable dismissal, a statement of method of admission, an official detailed statement of the studies by terms or semesters with standing in the same, the exact number of terms of attendance, and a marked catalogue of the institution showing each subject that has been completed.

A blank form which explains the requirements for transfer, and which is to be filled out by an officer of the college which the applicant has attended, will be sent on application to the Dean of the College.

The privileges of the College are extended to special students who are qualified by age, character, practical experience, and habits of study to profit by college courses. Such properly qualified persons may be admitted as special students upon presenting satisfactory credentials and testimonials, and giving evidence that they are qualified to do specialized work of an advanced character.

The College makes no provision under the term of Special Students for those whose deficiencies in examination will not allow them to enter in full standing.

MATRICULATION

After registration and the acceptance of the examination papers or certificates at the office of the Dean, and the payment of the tuition for the first semester at the office of the Treasurer, the student will receive his matriculation papers from the President of the College.

CREDIT FOR WORK OUTSIDE OF COLLEGE COURSES

No time credit for work outside the College courses shall be allowed without examination.

Students who before entering College have done work in any department in excess of that which is required for admission in that department and which corresponds to the work of any of the college courses, may receive credit for the corresponding college courses on passing special examinations. These examinations must be taken before the student has begun work in the department in which he seeks credit, and in no case will the special examination be given after the beginning of his second year in College.

The omission of elementary courses in any department, without time credit, and admission to more advanced courses in the same department, may be permitted without examination in cases in which certification admits to advanced courses: in other cases only upon examination.

The substitution of a course in one department for a required course in another department can be permitted only upon a satisfactory examination in the required course.

GRADUATE STUDENTS

Applicants for an advanced degree, whether resident or non-resident, are required to announce to the Dean not later than the first day of the college year the particular branches of study to which they wish to give attention during the year, together with all needed statistics and facts. Blanks for this purpose may be obtained on application. The supervision of their work will then be entrusted to the Committee on Graduate Instruction, to whom all inquiries for further details should be addressed.

Graduates of this or any other College, desirous of pursuing their studies in residence, without reference to a degree, may attend the public lectures of the College, and use the library, laboratories, apparatus, and scientific collections, subject to such rules as the Faculty may establish.

COURSES OF INSTRUCTION

The courses of instruction offered lead to the degree of Bachelor of Arts or of Bachelor of Science (Chandler Scientific Course).

GROUP SYSTEM OF STUDIES

In this system the different departments of instruction are arranged under three groups, namely, "Language and Literature," "Mathematics and the Physical and Natural Sciences," and "History, the Social Sciences, and Philosophy," as follows: —

GROUP I	GROUP II	GROUP III
LANGUAGE AND LITERATURE	MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES	HISTORY, THE SOCIAL SCIENCES, AND PHILOSOPHY
Comprising the Departments of	*Comprising the Departments of*	*Comprising the Departments of*
Greek	Mathematics	History
Latin	Graphics	Economics
English	Engineering	Political Science
French	Physics	Sociology
Spanish	Astronomy	Philosophy
Italian	Chemistry	Music
German	Biology	Archæology
Linguistics	Physiology	Fine Arts
Comparative Literature	Anatomy	Education
	Geology and Mineralogy	

The courses in each department of instruction are graded as A, B, or C; A being the lowest, and C the highest. An A course usually signifies the first or second year's work in College; a B course, the second or third year's work; a C course, the third or fourth year's work.

MAJORS AND MINORS

The Group System requires electives in certain departments of study, designated as Majors and Minors.

A Minor study consists of at least twelve semester hours in one department; six semester hours in each of two grades, A, B or C. A Major study consists of at least eighteen semester hours in one department; six semester hours in each grade A, B, and C. Courses graded as "B or C" count as B courses when only the regular work of the course is required, but may count as C courses when additional work is assigned by the instructor.

In certain cases a Major or a Minor is made up from a combination of courses in the different departments, as indicated under "Departments of Instruction." Any exceptions to the above requirements in number of hours and any combinations of departments will be found after the description of courses in those departments in which exceptions are made.

REQUIREMENTS FOR BACHELOR'S DEGREE

The Group System requires that a candidate for the Bachelor's degree must complete a Major study in one of the three groups, and a Minor study in *each* of the other two groups. An average rank of 60 per cent is required for the group of courses presented by a student for his Major.

A candidate for the B.S. degree, however, must also have completed twelve semester hours of Mathematics, or of Physics, or of Chemistry, or of Biology, and six semester hours of *each* of the other three. Students who take their senior year in the Thayer School are allowed to substitute Graphics for Biology, and to meet the requirement for a Minor in Group III by History 1 and 2 and six more semester hours in that group.

For the Bachelor's degree fifteen (15) hours per week in each semester are required, and for the Freshman class one additional hour in Physical Culture each semester, — the whole amounting to one hundred and twenty-two semester hours. No Senior will be recommended for a degree who has not completed 12 hours in the second semester, unless he has completed the requirement for a degree at the end of the first semester.

Successful candidates for a degree are required to be present at the time the degrees are conferred unless previously excused by the President.

In Freshman year the studies are mainly prescribed. Candidates for the A.B. degree must continue the subjects presented for entrance, except History and Mathematics, if Mathematics II is presented. Those presenting Greek must continue Greek, Latin, English, Mathematics, unless Mathematics II complete is presented, and choose between French and German. Those entering without Greek must continue Latin, English, Mathematics, unless Mathematics II complete is presented, and the advanced French or German presented, and must choose between Greek and the other modern language. Candidates for the B.S. degree must continue English, Mathematics, unless Mathematics II complete is presented, and the advanced French or German presented, must choose between Greek, Latin, and the other modern language, and must choose one of the five following: Graphics, Chemistry, Biology, Physics, History. Students who present Mathematics II may continue in Mathematics or elect one of the following: Graphics, Physics, Chemistry, if they present Chemistry for admission, Biology, History. Studies elected for Freshman year become prescribed and must be completed to secure a degree.

Members of the College may substitute for the elective studies of Senior year the work of the first year in the Thayer School of Civil Engineering. They may be candidates for the degreee of Bachelor of Arts or of Science with their class, and after a second year of work in the Thayer School they may receive the degree of Civil Engineer. The conditions for such an election will be found under the Thayer School of Civil Engineering.

Candidates for either Bachelor's degree offered by the College who have met the requirements in electives and in rank, as outlined under Conditions for Admission to the Tuck School of Administration and Finance, may elect the first-year course in the Tuck School for their work of Senior year. At the close of the year, they may graduate from the College with the Bachelor's degree for which they entered. After a year of graduate study in the Tuck School, they may receive the degree of Master of Commercial Science. The conditions for such an election will be found under the Tuck School.

Students who intend to enter the Medical Department may receive

credit for the first year of the medical course by electing such studies as are prescribed for that year, and by registering in the Medical School at the opening of Senior year. The conditions for such an election will be found under the Medical School.

RULES GOVERNING THE ELECTION OF STUDIES

(1) Every student, in making his elections, must meet the requirements and conform to the conditions of the studies he may choose, as set forth in the "Departments of Instruction," and in the "Outline of Studies." The choice of any elective involves the same requirement in respect to attendance and scholarship as for a prescribed study.

(2) Elections for the second semester must be communicated to the Dean, in writing, on or before January 10, and for the first semester on or before June 1.

(3) Fifteen hours per week in each semester must be elected by each student except by Seniors who have exceeded the required number of hours in previous years; such Seniors may elect as few as twelve hours in each semester provided the total number of hours for the four years meets the requirement for a degree. After Freshman year a student having an average of not less than 70 per cent (75 per cent in 1909 and after) for the previous semester at the time of making elections may elect eighteen hours.

(4) A student, whose standing is less than 70 per cent for the last completed semester at the time of making elections, will not be permitted to elect more than sixteen hours, unless the election of five courses requires seventeen hours.

(5) No student will be allowed to elect a study with a class above his own, or any group of electives involving more than a total number of eighteen exercises a week, except by vote of the Committee on Administration. A student may elect studies assigned to a class below his own, subject to the approval of the instructor concerned.

(6) A student beginning a modern language in the first semester must continue it through the year.

(7) Students who take their Senior year in the Medical School are required to elect eighteen hours per week.

(8) Any student failing to make his elections at the specified time shall pay into the College Treasury three dollars.

(9) No student will be allowed to change his elections, except by special permission of the Dean, and after the payment of two dollars into the College Treasury.

(10) The Faculty will ordinarily withdraw any elective study not chosen by at least four students.

A student in making his elections for Sophomore and for Junior years should indicate in which *group* he intends to secure a Major, and in making his elections for Senior year should indicate the *departments* in which he intends to secure his Major and his two Minors.

DEPARTMENTS OF INSTRUCTION

GREEK

I

GREEK LITERATURE

1. *Beginners' Course.*

Mr. NIXON. First Semester, 3 hrs.

Grammar and Reader. A course for students who entered without Greek, and who wish to begin it in College.

2. *Beginners' Course (continued).*

Mr. NIXON. Second Semester, 3 hrs.

Selections from Xenophon's *Anabasis*. Prose Composition.

3. *Elementary Reading Course.* A

Mr. NIXON. First Semester, 3 hrs.

Selections from Attic Prose. Systematic study of Syntax.

A course in Sophomore year for students who took Courses 1 and 2 in Freshman year.

4. *Homer, Elementary Course.* A

Mr. NIXON. Second Semester, 3 hrs.

Selections from the *Iliad*. Introduction to Homeric language and verse. To follow Course 3.

5. *Lysias and Plato.* A

Professors C. D. ADAMS and G. D. LORD. First Semester, 3 hrs.

Selected Speeches of Lysias. Plato, *Apology.*

The regular course for Freshmen who enter with Greek.

6. *Homer.* A

Professors C. D. ADAMS and G. D. LORD. Second Semester, 3 hrs.

The *Odyssey.* Rapid reading, with systematic study of Homeric forms and syntax, and of Homeric antiquities.

7. *Demosthenes, and the Political History of Greece in the Fourth Century B.C.* B

Professor C. D. ADAMS. First Semester, 3 hrs.

De Corona. The reading course is preceded by a careful study of the history of Greece from the close of the Peloponnesian War to the death of Alexander, with lectures upon the significance of the struggle with Philip. The oration is studied with special emphasis upon the political questions involved, and upon the application of rhetorical theory to practical eloquence.

Courses 7 and 8 a are designed especially for Sophomores who wish to take up work in Political Science and Economics in their Junior and Senior years. These courses are accepted as prerequisites for Economics 1 and Political Science 1.
Courses 7 and 8 b are accepted as prerequisites for English 15.

8 a. *Political Theories of the Greeks.* B

Professor C. D. ADAMS. Second Semester, 3 hrs.

The study of the political theories of the Greeks, in part by lectures on the Athenian Democracy in theory and practice, in part by the study of the Greek texts, and in part by the reading of translations. The chief texts to be studied will be the anonymous *Constitution of Athens*, Aristotle's *Constitution of Athens*, the parts of Plato's *Republic* that treat more especially of political organization, and Aristotle's *Politics.*

8 b. *Sophocles.* B

Professor HUSBAND. Second Semester, 3 hrs.

Sophocles, *Œdipus Tyrannus;* Euripides, *Bacchæ.* The reading will be preceded by a study of the early history of the drama,

and of the treatment of the Theban myth by the three tragedians. The *Bacchæ* will be read rapidly, with particular attention to metre.

Course 8 b is designed for Sophomores and Juniors who wish a more distinctively literary course than 8 a. Courses 7 and 8 b are accepted as prerequisites for English 15.

9. *Thucydides.* C

Professor C. D. ADAMS. First Semester, 3 hrs.

The reading of selections from Thucydides, with studies in Greek syntax.

Offered in 1909–1910. Courses 9 and 11 are offered in alternate years.

10. *Æschylus.* C

Professor G. D. LORD. Second Semester, 3 hrs.

The *Oresteia.* The three dramas will be studied in part by class translation, and in part by reading and lectures by the instructor. Lectures on dramatic criticism.

Offered in 1909–1910. Courses 10 and 12 are offered in alternate years.

11. *Plato.* C

Professor C. D. ADAMS. First Semester, 3 hrs.

The *Phædo* and selections. Introduction to Platonism. Collateral reading in the History of Greek Philosophy.

12. *Epic Poetry.* C

Professor G. D. LORD. Second Semester, 3 hrs.

The *Iliad* and the *Odyssey* will be read, partly in English versions, with the purpose especially of cultivating literary appreciation of each poem as a whole in the form in which we now have it. Special problems in theories of the European origin of the poems will be discussed, and a condensed history of Homeric Criticism will be given.

13 and 14. *Greek Testament.* C

Professor C. D. ADAMS. First and Second Semesters, 1 hr.

The *Gospel of Mark.* Translation and interpretation. Practice in the transcription of the text from a facsimile of MS. Studies in textual

criticism and in New Testament Grammar. Studies in the relation of *Mark* to the other synoptic gospels.

Open to Juniors and Seniors only.

II

GREEK LANGUAGE

17 and 18. *Greek Composition.* B

Professor C. D. ADAMS. First and Second Semesters, 1 hr.

Exercises in writing Greek. Murray's *College Greek Composition.*

19 and 20. *Historical Greek Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

See Courses 3 and 4 under Linguistics.

21. *The Language of Homer.* C

Professor HUSBAND. First Semester, 3 hrs.

See Course 5 under Linguistics.

LATIN

1. *Livy.* A

Professors J. K. LORD and BURTON, and Mr. NIXON.

First Semester, 3 hrs.

Selections from several books, treating of different periods in the History of Rome.

2. *Horace and Terence.* A

Professors J. K. LORD and BURTON, and Mr. NIXON.

Second Semester, 3 hrs.

Selected *Odes* of Horace; a play of Terence will be read by the class, and one or more plays will be read to the class by the instructor.

Lectures will be given on the **Roman Theatre** and the production of plays.

3. *Tacitus.* B

Professor HUSBAND. First Semester, 3 hrs.

Reading of the *Agricola* and first two books of the *Histories*, with emphasis laid upon the Roman colonial administration, and the political situation in Rome during the early empire.

4. *Suetonius and Catullus.* B

Professor BURTON. Second Semester, 3 hrs.

Selections from the *Lives of the Cæsars*, and from the *Odes* of Catullus.

Latin 3 and 4 are accepted as prerequisites for English 15.

5. *Roman Life.* A

Professor BURTON. First Semester, 3 hrs.

See Course 1 under Archæology.

6. *Political Institutions of the Roman Republic.* B

Professor HUSBAND. Second Semester, 3 hrs.

The study of the earliest period is based upon the first two books of Cicero's *de Re Publica;* this is followed by the reading in translation of Polybius, Book VI, with a sketch of the institutions of the later republic; selections from Cicero's *Orations against Verres.*

Courses 3 and 6 will together be regarded as affording sufficient preliminary training for those expecting to elect the elementary courses in Economics and Political Science, and will be accepted as a prerequisite for those courses.

7 and 8. *Latin Composition.* B

Professor HUSBAND. First and Second Semesters, 1 hr.

Exercises based on the *de Senectute* of Cicero, with translation at hearing and at sight.

9. *Cicero.* C

Professor J. K. LORD. First Semester, 3 hrs.

De Oratore. The course will be a study of the development of Roman oratory and of Cicero's theory of oratory. Lectures, and criticisms of special speeches. Each student will be required to study carefully a speech of Cicero and to prepare and to read before the class an essay upon it.

Courses 9 and 11 are offered in alternate years.

10. *Horace.* C

Professor J. K. LORD. Second Semester, 3 hrs.

The *Satires* and *Epistles* of Horace, with special reference to the social life of the times.

Courses 10 and 12 are offered in alternate years.

11. *Latin Literature.* C

Professor J. K. LORD. First Semester, 3 hrs.

Selections from different authors illustrating the development of the literature. Lectures will be given upon the literature and upon individual authors, and essays and reports upon subjects assigned for special study in connection with the course will be required of the students.

Offered in 1909–1910.

12. *Seneca.* C

Professor J. K. LORD. Second Semester, 3 hrs.

The *Essays* and *Epistles* of Seneca.

Offered in 1909–1910.

13. *Vergil.* C

Professor BURTON. First Semester, 3 hrs.

Translation and discussion of parts of each work. Investigation of the following subjects: Latin epic, didactic, and pastoral poetry; the life of Vergil; his sources and the influence of other writers upon him; the mediæval conception of Vergil.

Offered in 1909–1910.

14. *Roman Satire.* C

Professor BURTON. Second Semester, 3 hrs.

The development of this form of literature will be considered in its various phases. The class will read selections from Merrill's *Fragments of Roman Satire* and some of the *Satires* of Horace, Persius, and Juvenal.

15. *Plautus and Petronius.* C

Professor BURTON. First Semester, 3 hrs.

The *Trinummus* and *Captivi* of Plautus, and selections from the *Cena Trimalchionis* of Petronius.

Courses 13 and 15 are offered in alternate years.

16. *Roman Law.* C

Professor HUSBAND. Second Semester, 3 hrs.

An outline of the history and the sources of Roman law to the time of Justinian; reading of Robinson's *Selections from the Public and Private Law of the Romans.* The aim is to gain a knowledge of legal principles and terminology rather than of the rules of positive law.

17 and 18. *Historical Latin Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

See Courses 7 and 8 under Linguistics.

20. *Latin Sounds.* C

Professor HUSBAND. Second Semester, 3 hrs.

See Course 10 under Linguistics.

Latin 21 and 22.

Professor HUSBAND. First and Second Semesters, 3 hrs.

Roman Public Life.

Development of the Roman constitution to the end of the republic; the administration of colonies and provinces; government of municipalities; history of Roman conception of law, and the sources of the *Corpus Iuris.* Reading of Cicero, *de Re Publica, de Legibus, Orationes in Verrem,* Epistles from Cilicia; Polybius, Book VI; Pliny's Correspondence with Trajan; *Lex Iulia Municipalis,* and the extant city charters.

Open to graduate students only.

ENGLISH

I

COMPOSITION, RHETORIC, AND CRITICISM

1 and 2. *English Composition and Rhetoric.* A

Professors KEYES and WATSON, and Drs. LICKLIDER and DAVIS.

First and Second Semesters, 3 hrs.

An introduction to the study of Rhetoric, with the preparation and criticism of themes, and constant reference to printed examples of correct and incorrect style. (Pearson's *Principles of Composition*, Hill's *Principles of Rhetoric*, Newcomer's *Elements of Rhetoric*, Lamont's *English Composition*.)

3. *History and Criticism of Eighteenth Century Literature.* B

Dr. DAVIS. First Semester, 3 hrs.

This course is designed to acquaint the student with the history of English poetry from Dryden to Wordsworth. Lectures, readings, themes, and recitations. Gosse's *History of Eighteenth Century Literature*; Bronson's *English Poems of the Restoration and Eighteenth Century*.

4. *History and Criticism of Eighteenth Century Prose.* B

Dr. DAVIS. Second Semester, 3 hrs.

A study of the prose writers from 1660 to 1800, with especial attention to the beginnings of the English Novel. Weekly themes and criticisms on assigned readings will be required. (Gosse's *History of Eighteenth Century Literature*.)

5. *Advanced English Composition.* B

Professor EMERY. First Semester, 3 hrs.

Daily and weekly themes. This course is open to such Seniors and Juniors as are competent to pursue and profit by the course. (Baldwin's *College Rhetoric*, Gardiner's *Forms of Prose Literature*.)

6. *English Criticism.* B

Professor EMERY. Second Semester, 3 hrs.

The history and comparison of the various schools of criticism in England and America, with constant application of the principles of criticism to English and American writers. Daily and weekly reports on assigned readings will be required. This course is open only to such students as have passed in English 5. (Winchester's *Principles of Literary Criticism.*)

II

ORATORY AND ARGUMENTATION

8. *Oratory.* A

Professor LAYCOCK. Second Semester, 1 hr.

The purpose of this course is to furnish *personal drill* to those students who are specially interested in the Art of Public Speaking. Original orations and declamations will be delivered before small divisions, and each student will be given personal attention by the instructor.

9. *Argumentative Composition and Oratory.* B

Professors LAYCOCK and WATSON and Mr. HASTINGS.

First Semester, 3 hrs.

Lectures, Recitations, Briefs, and Forensics, with daily practice in the application of rhetorical and oratorical principles to argumentation. (Laycock and Scales' *Argumentation and Debate.*)

10. *Argumentative Oratory.* B

Professors LAYCOCK and WATSON and Mr. HASTINGS

Second Semester, 3 hrs.

This is a continuation of Course 9, and is open only to such students as have passed in that course. It will consist of the preparation of numerous briefs and forensics for debate, and daily practice in Oratorical Argumentation.

11. *Voice Culture and History of Oratory.* C

Professor LAYCOCK. First Semester, 3 hrs.

Lectures, Recitations, and Exercises in Voice Culture. Theses will be written and delivered before the class by the students in this

course. (Hardwicke's *History of Oratory and Orators.*) Open only to those who have had English 9 and 10.

Courses 11 and 13 are offered in alternate years.

13. *Forensic Oratory.* C

Professor LAYCOCK. First Semester, 3 hrs.

This course is planned especially for those who expect to become lawyers. (Robinson's *Forensic Oratory.*) Open only to those who have had English 9 and 10.

Offered in 1909–1910.

III

LITERATURE AND PHILOLOGY

15. *English Literature.* B

Professor RICHARDSON. First Semester, 3 hrs.

Lectures, with daily illustrations from representative authors. This course is designed to set forth the philosophy of literature, and the relation of writers to their predecessors and contemporaries.

Greek 7 and 8 b, or Latin 3 and 4, or History 1 and 2 are prerequisites for this course.

16. *American Literature.* B

Professor RICHARDSON. Second Semester, 3 hrs.

Lectures, recitations, and daily readings from representative authors, with discussions tending toward the development of independent critical power. (Richardson's *American Literature.*)

English 15 is a prerequisite for this course.

17 and 18. *Old English.* (*Linguistics 11 and 12.*) C

Professor HARDY. First and Second Semesters, 2 hrs.

Grammar; reading of selections from Bright's *Anglo-Saxon Reader;* lectures on Old English phonology and morphology.

Second semester: study of a selected text.

This course is open to Seniors who have attained an average rank of 75 in all their previous English courses, and to graduate students.

19. *English Lyric Poetry.* C

Professor RICHARDSON. First Semester, 3 hrs.

Lectures on the principles of versification and the history of English rhyme. (Palgrave's *Golden Treasury.*)

This course is open only to Seniors.

20. *Middle English.* (*Linguistics 14.*) C

Professor HARDY. Second Semester, 3 hrs.

Grammar and reading of selections from Emerson's *Middle English Reader.* Special attention will be given to the relation of Middle English to Old English and Modern English. Courses 17 and 18 are prerequisites for this course, except that students who have taken Course 17 may take this course and Course 18 at the same time.

21. *The English Drama, and Shakespeare.* C

Professor EMERY. First Semester, 3 hrs.

Lectures on the history of the Drama, from the Miracle Plays to the year 1596, including the study of Shakespeare's early comedies and historical plays; with constant reading, and oral and written criticism of the plays considered.

This course is open to students who have passed English 15.

22. *Shakespeare.* C

Professor EMERY. Second Semester, 3 hrs.

The critical and appreciative study of Shakespeare's plays, with lectures upon Shakespeare as a dramatic artist. Daily reports upon assigned readings will be required. This course is a continuation of Course 21, and is open only to such students as have passed in that course.

23 and 24. *English Composition and Literature.* C

Professor EMERY. First and Second Semesters, 1 hr.

An advanced course in composition, with theses upon topics taken from the history of literature and criticism.

25. *The English Pastoral.* C

Dr. LICKLIDER. First Semester, 3 hrs.

A review of the development of the pastoral *genre* in English Literature, including the study of its various forms, — eclogue, romance, drama, and lyric. Special work will be done in the eclogue, with Spenser's *Shepheard's Calender* as a basis. Lectures and required readings with oral and written reports.

This course is open only to Seniors.
Not offered in 1908–1909.

26. *The Arthurian Stories in English Literature.* C

Dr. LICKLIDER. Second Semester, 3 hrs.

A study of the origin and development of the various elements in the legends, and a survey of the history of the cycle in English Literature, with special emphasis upon its modern forms in the poetry of Tennyson, Arnold, Swinburne, Morris, Lowell, and Hovey. Lectures, with constant reading in the literature of the subject and oral and written reports upon the works considered.

This course is open only to Seniors.

27. *The History of English Fiction.* C

Professor EMERY. First Semester, 3 hrs.

A study of the development of English Fiction from the early legends and ballads to the classical novels of the nineteenth century. Lectures, recitations, assigned readings, oral and written reports.

This course is open only to Seniors.

29 and 30. *The Development of the English Drama.*

Professor EMERY. First and Second Semesters, 3 hrs.

A study of the origin and sources of the English drama, and a comparison of English and foreign dramatic form and subject-matter.

This course is primarily for graduates.

ROMANCE LANGUAGES

FRENCH

I

GRAMMAR AND TRANSLATION

1 and 2. *First Year Courses.*

Messrs. GREENE, WELLS, and KITTREDGE.
First and Second Semesters, 3 hrs.

Pronunciation. Elements of grammar with oral and written exercises to illustrate their application. (Chardenal's *Complete French Course revised*, Allyn and Bacon.) Translation and sight-reading of simple French prose. (Dumas, *la Tulipe noire;* Theuriet, *l'Abbé Daniel;* Mérimée, *Chronique du règne de Charles IX;* short stories of Daudet, Maupassant, and others.) Simple paraphrasing in French of portions of the texts read. Easy oral and written exercises in dictation.

Students taking Course 1 must take Course 2 the next semester. A separate division (known as French 1–2 advanced) made up of students who have had a slight preparation in French may be formed for the sake of pursuing somewhat more advanced work than that of the other divisions.

3 and 4. *Second Year Courses.*

Professor TAYLOR and Messrs. GREENE and WELLS. A
First and Second Semesters, 3 hrs.

Grammar and composition. (Chardenal's *Advanced French Exercises*, Allyn and Bacon.) Translation and sight-reading of French prose of Intermediate grade. (Margueritte, *Strasbourg;* Daudet, *Tartarin de Tarascon;* Scribe and Legouvé, *Bataille de dames;* Molière, *le Médecin malgré lui;* Vigny, *la Canne de jonc.*)

Courses 3 and 4 are prescribed for Freshmen who offer one year of French for admission to college, and may be elected by students who have passed in Courses 1 and 2.

5 and 6. *Third Year Courses.* A

Professors TAYLOR and SKINNER, and Messrs. GREENE, WELLS, and KITTREDGE. First and Second Semesters, 3 hrs.

A careful review of grammar. (Vreeland and Koren, *French Syntax and Composition.*) Practice in writing French. Translation of more difficult French prose and poetry. (*Quelques contes des romanciers naturalistes*, Heath & Co.; Daudet, *Fromont jeune et Risler aîné;* Molière, *l'Avare;* Feuillet, *le Village;* La Fontaine, *Fables.*)

Courses 5 and 6 are prescribed for Freshmen who offer two years of French for admission to college. They may also be elected by students who have passed in Courses 3 and 4, and, with the permission of the department, by students who have attained high rank in Courses 1 and 2.

II

COMPOSITION AND CONVERSATION

7 and 8. *Elementary Courses.* B

Professors TAYLOR and LANGLEY. First and Second Semesters, 3 hrs.

Practice in speaking and writing French. (Cameron, *French Composition; French Daily Life*, Newson & Co.) Dictations, readings, and talks in French. The aim of the course is to enable the student to understand readily spoken French, to train him in the use of common idioms, and to familiarize him with the characteristic features of French public and private life, as subject-matter for conversation.

Courses 7 and 8 may be elected by students who have passed in Courses 5 and 6, and, with the permission of the department, by students who have attained high rank in Courses 3 and 4.

9 and 10. *Advanced Courses.* C

Professor DOW. First and Second Semesters, 3 hrs.

These courses are conducted entirely in French. Lectures, outside readings, and discussions upon such subjects as the following: government and administration; politics; church and state; public education; organization of army and navy; family and social life; art and literature. Besides the instruction in composition and conversa-

tion the aim of the courses is to cultivate an appreciation of the French point of view.

Courses 9 and 10 may be elected only by students who have attained a rank of at least 80 in Courses 7 and 8.

III

LITERATURE

11 and 12. *General Survey of French Literature.* B

Professors DOW and SKINNER. First and Second Semesters, 3 hrs.

In these courses students will be given an opportunity to become acquainted with many of the literary masterpieces produced in France during the last three centuries, and at the same time to form some idea of the development of French literature from the beginnings of classicism to the present day. During the first semester works of the following seventeenth century authors will be read in the classroom: Descartes, Corneille, La Rochefoucauld, Pascal, Racine, Molière, Boileau, La Fontaine, Bossuet, and La Bruyère. The second semester will be devoted to the reading of selections from the works of the eighteenth and nineteenth century authors: Voltaire, Rousseau, Beaumarchais, Chénier, Chateaubriand, Lamartine, Hugo, Alfred de Musset, Alfred de Vigny, Th. Gautier, George Sand, Balzac, Augier, Leconte de Lisle, Flaubert, Zola, Daudet, Maupassant, and some contemporary writers; in addition a considerable amount of collateral reading will be required.

Courses 11 and 12 may be elected by students who have passed in Courses 5 and 6 or Courses 7 and 8, and, with permission of the department, by students who have attained high rank in Courses 3 and 4.

13 and 14. *Seventeenth Century Literature.* C

Professor DOW. First and Second Semesters, 3 hrs.

A study of the origin and development of French classicism with particular attention to French tragedy and comedy. The first semester is devoted chiefly to Corneille and Pascal, the second semester to Molière and Racine. Lectures, themes, collateral reading, and reports. Open to those students who have passed in Courses 11 and 12, and to such others as may satisfy the instructor of their ability to do the work of the course.

15 and 16. *Eighteenth Century Literature.* C

Mr. WESTON. First and Second Semesters, 3 hrs.

This course is devoted chiefly to the study of Voltaire and Rousseau as embodying the ideas which had important bearing upon the French Revolution. Attention is given also to Montesquieu, Buffon, and the Encyclopedists. The theatre of the eighteenth century and the development of the novel are studied. In addition to lectures and readings in the class-room, a considerable amount of collateral reading is required. Open to those students who have passed in Courses 11–12 with grade of 80, and to such others as may satisfy the instructor of their ability to do the work of the course.

Courses 15 and 16 omitted in 1908–1909.

17 and 18. *Nineteenth Century Literature.* C

Professor LANGLEY. First and Second Semesters, 3 hrs.

A study of the French and the foreign origins of romanticism in France; of the conflict between romanticism and classicism; of the origin and growth of realism; of the influence of the Northern literatures in France, and of the more recent movements in French literature. Lectures, reading in class, themes, collateral reading, and reports. Open to those students who have passed in Courses 11–12, and to such others as may satisfy the instructor of their ability to do the work of the course.

19 and 20. *Sixteenth Century Literature.* C

Professor TAYLOR. First and Second Semesters, 3 hrs.

This course is a study of the language and literature of France during the period of transition from mediæval to modern times. There will be introductory lectures upon the language and literature of the Old French period, followed by critical readings of Marot, Ronsard, Rabelais, Montaigne, and other representative writers of the Renaissance period. Darmestetter-Hatzfeld, *le XVI^e^ Siècle en France* (Paris, 1893), will be used as a hand-book. Open, after consultation with the instructor, to those students who have had any two of the grade C literature courses.

Courses 19 and 20 omitted in 1908–1909.

21 and 22. *Historical French Grammar.* C

Professor SKINNER. First and Second Semesters, 3 hrs.

See courses 19 and 20 under Linguistics.

Omitted in 1908–1909.

SPANISH

1 and 2. *Elementary Courses.* A

Mr. GREENE. First and Second Semesters, 3 hrs.

Elementary course in grammar, composition, and reading. The object of the course is to enable the student at the end of the year to translate easy English into Spanish, and to read with little difficulty modern prose. Such text-books as the following may be used: Hills and Ford, *Spanish Grammar;* Padre Isla, *Gil Blas;* Valdés, *La Alegría del Capitán Ribot;* Moratín, *El sí de las Niñas;* Cervantes, Extracts from *Don Quixote;* Remy's *Spanish Composition.*

Students are not allowed to elect Spanish 1 and 2 and Italian 1 and 2 in the same year. Spanish 1 will not count toward a degree without Spanish 2.

3 and 4. *Advanced Courses.* B or C

Professor SKINNER. First and Second Semesters, 3 hrs.

In the first part of the year grammar study and composition will be continued. In reading, attention will first be paid to the more important contemporary writers, and afterwards to the classic authors of the sixteenth and seventeenth centuries. The whole or parts of the following works will be read: Alarcón, *Historietas Nacionales;* Ford, *Spanish Anthology;* Cervantes, *Don Quixote;* Calderón, *El Alcalde de Zalamea; El Lazarillo de Tormes.* In addition, parts of Ticknor's *History of Spanish Literature* will be read.

A Major in Romance Languages may be obtained by taking in addition to the requirements for a Minor in French, Spanish 1, 2, 3, and 4.

ITALIAN

1. *Elementary Course.* A

Professor LANGLEY. First Semester, 3 hrs.

Elementary course in grammar, composition, and reading.

Text-books to be used: Young's *Italian Grammar;* Bowen's *Italian Reader;* Goldoni's *Il vero amico;* Manzoni's *I promessi sposi;* Barrili's *Una notte bizzarra.*

2. *Dante's Divina Commedia.* A

Professor LANGLEY. Second Semester, 3 hrs.

(Scartazzini's one-volume edition.) Translation and interpretation of the *Inferno.* Lectures and collateral readings.

To count for a degree both of the above courses must be taken. Students are not allowed to elect Italian 1 and 2 and Spanish 1 and 2 the same year, without the consent of the instructors.

4. *Rapid Reading Course.* A

Professor LANGLEY. Second Semester, 2 hrs.

This course will give, in addition to training in rapid reading, a survey of representative works of modern Italian literature taken in the following order: (a) prose: Manzoni, Pellico, Fogazzaro; (b) drama: Alfieri; (c) lyric poetry: Foscolo, Leopardi, Carducci. Open to students who have had Course 1.

Omitted in 1908–1909.

5. *Italian Literature of the Fourteenth Century.* B or C

Professor LANGLEY. First Semester, 3 hrs.

Continuation of Dante; representative selections from the *Rime* of Petrarch (Carducci's edition), and the *Decamerone* of Boccaccio (Fornaciari, *Novelle scelte*). A study of the literature of the period, using as text-book Gaspary's *Storia della letteratura italiana;* lectures and collateral readings.

6. *General Survey of the Literature of the Renaissance.* B or C

Professor LANGLEY. Second Semester, 3 hrs.

Representative works of the following authors: Poliziano, Machiavelli, Bembo, Ariosto, Berni, Cellini, Vasari, Guarini, Tasso. As text-book D'Ancona e Bacci, *Manuale della letteratura italiana,* vols. 2 and 3. Lectures and collateral readings.

Courses 5 and 6 are open to those who have passed in Courses 1 and 2 and to such others as may satisfy the instructor of their ability to do the work of the course.

A Major in Romance Languages may be obtained by taking, in addition to the requirement for a Minor in French, Italian 1, 2, 5, and 6.

GERMAN

1 and 2. *Elementary* (*First Year*).

Professors HARDY, STEWART, CLARK, and BABBITT, and Mr. BRIGGS.

First and Second Semesters, 3 hrs.

(a) Pronunciation, (b) Memorizing and frequent repetition of easy colloquial sentences, (c) Rudiments of Grammar with exercises, (d) Reading selections from a German Reader, (e) Constant practice in translating into German easy variations upon sentences selected from the reading lesson, (f) Reading at sight.

Students taking Course 1 *must* also take Course 2 the next semester. These courses will not count toward Minors or Majors in the Group System.

3 and 4. *Elementary* (*Second Year*). A

Professors W. A. ADAMS, CLARK, and BABBITT, and Mr. BRIGGS.

First and Second Semesters, 3 hrs.

Reading of narrative prose, stories, and plays. Grammar, paraphrasing of texts read, word-formation.

Course 3 is a continuation of Courses 1 and 2. Students having had Courses 1 and 2, and wishing to continue their German, *must* choose Course 3. Students taking Course 3 are expected to elect Course 4 the next semester.

5 and 6. *Advanced* (*Third Year*). A

Professors STEWART, CLARK, and BABBITT, and Mr. BRIGGS.

First and Second Semesters, 3 hrs.

First semester: Reading of narrative prose and a story. Second semester: Narrative prose; Heine, Prose and Poems. Review of grammar, paraphrasing of texts, word-formation.

Courses 5 and 6 are prescribed for Freshmen who offered two years of German for admission to College. An advanced section will do work of B grade and may be elected by upper classmen.

7 and 8. *Modern German Prose.* B

Professors HARDY and BABBITT. First and Second Semesters, 3 hrs.

Reading of a considerable amount of prose taken from representative modern writers, also some lyrics and ballads, and a modern play.

9. *Lyrics and Ballads.*

Professor STEWART. First Semester, 3 hrs.

Reading of a considerable amount of representative German lyrics and ballads. Study of authors and periods.

Not offered in 1908–1909.

11. *German Drama.* B

Professor HARDY. First Semester, 3 hrs.

Reading of plays with study of the drama. Selection made from the following list: Lessing, *Minna von Barnhelm*, *Emilia Galotti;* Goethe, *Götz von Berlichingen*, *Iphigenie auf Tauris;* Schiller, *Maria Stuart*, *Die Jungfrau von Orleans.*

12. *German Drama* (*continued*). B

Professor HARDY. Second Semester, 3 hrs.

Continuation of Course 11. Selection made from the following list: Schiller, *Wallenstein;* Kleist, *Der Prinz von Homburg;* Grillparzer, *Die Ahnfrau*, *Sappho.*

13 and 14. *Composition and Conversation.* B

Professor BABBITT and Mr. BRIGGS.

First and Second Semesters, 3 hrs.

Course 13 is open only to those who have previously had *two* years of German, and have attained an average rank of 70 in all their previous German courses. Course 14 is open only to those who have passed in Course 13.

15. *Goethe's Life and Works and their Significance.* C

Professor W. A. ADAMS. First Semester, 1 hr.

Lectures. Assigned readings. Knowledge of German not required.

17. *Goethe, Works and Life.* C

Professor W. A. ADAMS. First Semester, 3 hrs.

Life of Goethe; *Poems; Götz von Berlichingen*, or *Egmont*, or *Clavigo; Iphigenie auf Tauris.*

18. *Goethe (continued).* C

Professor W. A. ADAMS. Second Semester, 3 hrs.

Continuation of Course 17. Life of Goethe; *Faust I* and parts of *Faust II.*

Courses 17 and 18 are open to those who have previously had *two* years of German, but ordinarily would be taken more satisfactorily after *three* years of work in German. Consent of the instructor is necessary for those who have previously had only *two* years of German. Course 18 may be chosen by those who have not taken Course 17.

19 and 20. *History of German Literature.* C

Professor W. A. ADAMS. First and Second Semesters, 3 hrs.

History of German Literature down to the nineteenth century, supplemented by the reading of representative pieces of literature. The course is conducted in German. Permission of the instructor is required before electing the course.

Offered in 1909–1910.

21 and 22. *Nineteenth Century Literature.* C

Professor STEWART. First and Second Semesters, 3 hrs.

The history of German literature will be traced from the beginning of the Romantic Movement down to the present time with illustrative readings from various representative writers. The work will consist of lectures, recitations, reports, and outside reading.

Open only to Juniors and Seniors who have previously had *three* years of German.
Courses 19–20 and 21–22 are given in alternate years.

23 and 24. *Middle High German.* (*Linguistics 15 and 16.*) C

Professor HARDY. First and Second Semesters, 2 hrs.

Phonology and morphology; reading of selections from Bachmann's *Mittelhochdeutsches Lesebuch;* lectures on the historical development of the German language. Permission of the instructor is required before electing these courses.

25. *Gothic.* (*Linguistics 17.*) C

Professor HARDY. First Semester, 3 hrs.

The phonology and morphology will be studied with special attention to the Primitive Germanic forms, and selections from the Bible translation of Wulfila will be read. The course is intended for students of German or of English. Permission of the instructor is required before electing this course.

Not offered in 1908–1909.

27. *Lessing.*

Professor W. A. ADAMS. First Semester, 3 hrs.

Advanced course in Lessing. Open only to graduate students.

28. *Goethe.*

Professor W. A. ADAMS. Second Semester, 3 hrs.

Advanced course in Goethe. Open only to graduate students.

LINGUISTICS

1. *Principles of Linguistic Science.* C

Professor HUSBAND. First Semester, 3 hrs.

Phonetics; the life and growth of language; rise and differentiation of dialects; relation of sound changes in some of the principal European Languages. Open to Seniors.

3 and 4. *Historical Greek Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

Pronunciation; accentuation; the Indo-European sounds and inflections in Greek; historical syntax. Open to Seniors.

5. *The Language of Homer.* C

Professor HUSBAND. First Semester, 3 hrs.

Reading of dialect inscriptions in their relation to the Homeric language; study of sounds and inflections in Homer; comparison of the language of different parts of the Iliad. Open only to those who have taken Courses 3 and 4.

7 and 8. *Historical Latin Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

Pronunciation; accentuation with its effect upon sounds; the Indo-European sounds and inflections in Latin. Open to Seniors.

10. *Latin Sounds.* C

Professor HUSBAND. Second Semester, 3 hrs.

Minute study of the history of Latin sounds; selections from the Latin grammarians dealing with accentuation and sounds.

11 and 12. *Old English.* C

Professor HARDY. First and Second Semesters, 2 hrs.

Grammar; reading of selections from Bright's *Anglo-Saxon Reader;* lectures on Old English phonology and morphology.

This course is open to Seniors who have attained an average rank of 75 in all their previous English courses, and to graduate students.

14. *Middle English.* C

Professor HARDY. Second Semester, 3 hrs.

Grammar and reading of selections from Emerson's *Middle English Reader;* Special attention will be given to the relation of Middle English to Old English and Modern English. Courses 11 and 12 are prerequisites for this course, except that students who have taken Course 11 may take this course and Course 12 at the same time.

15 and 16. *Middle High German.* C

Professor HARDY. First and Second Semesters, 2 hrs.

Phonology and morphology; reading of selections from Bachmann's *Mittelhochdeutsches Lesebuch;* lectures on the historical development of the German language.

Permission of the instructor is required before electing these courses.

17. *Gothic.* C

Professor HARDY. First Semester, 3 hrs.

The phonology and morphology will be studied with special attention to the Primitive Germanic forms, and selections from the Bible translation of Wulfila will be read. The course is intended for students of German or of English.

Permission of the instructor is required before electing this course.

19 and 20. *Historical French Grammar.* C

Professor SKINNER. First and Second Semesters, 3 hrs.

Phonology, morphology, and syntax of Old French; reading of texts; historical development of the French language from the tenth century to the present day.

COMPARATIVE LITERATURE

1 and 2. *The Romantic Movement.* C

Professor STEWART. First and Second Semesters, 3 hrs.

A history of the Romantic Movement in England, France, and Germany. A discussion of the general characteristics of Romanticism, of its peculiarly national developments, and of the interrelations of the three literatures during the period in question.

Lectures, recitations, reports, and collateral readings.

Open to those students who have passed one year's work of B grade in both French and German.

MATHEMATICS

1. *Algebra.* A

Professor WORTHEN and Messrs. BARTON, MOORE, and BEETLE.

First Semester, 3 hrs.

Quadratic and indeterminate equations, ratio and proportion, variation, series, binomial formula, logarithms, permutations and combinations, theory of equations, graphic algebra. (Wells's *College Algebra.*)

2. *Solid Geometry and Plane Trigonometry.* A

Professor WORTHEN and Messrs. BARTON, MOORE, and BEETLE. Second Semester, 3 hrs.

(a) Solid Geometry, with original demonstrations, and the solution of problems relating to the surfaces and volumes treated.

(b) Plane Trigonometry, with applications to problems in surveying. (Phillips and Strong.)

3. *Algebra.* B

Professor SHERMAN and Mr. MOORE. First Semester, 3 hrs.

Logarithms, permutations and combinations, probability, continued fractions, summation of series, theory of equations, graphic algebra. (Wells's *Advanced Course in Algebra.*)

4. *Spherical Trigonometry and Analytic Geometry.* B

Professor SHERMAN and Mr. MOORE. Second Semester, 3 hrs.

(a) Spherical Trigonometry, with applications to Geodesy and Astronomy. (Phillips and Strong.) (5 weeks.)

(b) Plane Analytic Geometry as far as the discussion of the general equations of the conic sections. (Hardy.) (13 weeks.)

7. *Analytic Geometry and Calculus.* B

Professor WORTHEN and Mr. BARTON. First Semester, 4 hrs.

(a) Plane Analytic Geometry, including Higher Plane Curves. (Ashton.) (10 weeks.)

(b) Analytic Geometry of three dimensions. (Ashton.) (4 weeks.)

(c) Differential Calculus, with geometrical applications. (Osgood.) (4 weeks.)

8. *Differential and Integral Calculus.* C

Professor WORTHEN and Mr. BARTON. Second Semester, 4 hrs.

Differential and Integral Calculus, with applications. (Osgood.)

9. *Analytic Geometry and Differential Calculus.* C

Professor SHERMAN and Mr. MOORE. First Semester, 5 hrs.

(a) Analytic Geometry, beginning with the discussion of the general equations of the Conic Sections, and including Higher Plane Curves. (Hardy.) (5 weeks.)

(b) Analytic Geometry of three dimensions. (Hardy.) (3 weeks.)
(c) Differential Calculus, with geometrical applications. (Granville.) (10 weeks.)

10. *Differential and Integral Calculus.* C

Professor SHERMAN and Mr. MOORE. Second Semester, 5 hrs.

(a) Differential Calculus. A continuation of Course 9 c. (4 weeks.)
(b) Integral Calculus, with applications to Analytic Geometry and including the elements of Differential Equations. (Granville.) (14 weeks.)

Courses 1, 2, 7, and 8 are intended for those who enter with Mathematics I; Courses 3, 4, 9, and 10 are intended for those who enter with Mathematics II. Either of the above series is essential for the pursuit of the advanced courses in Engineering, Physics, and Astronomy.

11. *Differential Equations.* C

Professor WORTHEN. First Semester, 3 hrs.

An elementary course involving equations of the first and second orders with two or more variables.

12. *Determinants.* C

Professor SHERMAN. Second Semester, 2 hrs.

Text-book, Weld.

13. *Quaternions.* C

Professor SHERMAN. First Semester, 3 hrs.

Text-book, Hardy.

14. *Elliptic Functions.* C

Professor SHERMAN. Second Semester, 3 hrs.

Text-book, Baker. Supplemented by computation of the functions and problems.

16. *Theory of Functions.* C

Professor WORTHEN. Second Semester, 3 hrs.

An introductory course in the theory of Functions of a complex variable.

17. *Theory of Equations.*

Professor SHERMAN. First Semester, 3 hrs.

This course will comprise the general properties of polynomials and equations, the relation between the roots and coefficients with applications to the symmetric functions of the roots, the transformation of equations, the solution of cubic, biquadratic, binomial, and reciprocal equations, the properties of the derived functions, the symmetric functions of the roots, the limits and separation of the roots, the solution of higher numerical and transcendental equations, complex numbers, and the complex variable.

18. *Determinants.*

Professor SHERMAN. Second Semester, 3 hrs.

An advanced course covering the following topics: symmetrical and skew determinants, Pfaffians, alternants, continuants, Jacobians, Hessians, Wronskians, and linear transformations.

19. *Theory of Functions.*

Professor WORTHEN. First Semester, 3 hrs.

Theory of Functions of a Real Variable.

20. *General Theory of Surfaces.*

Professor WORTHEN. Second Semester, 3 hrs.

An elementary course.

Courses 11, 13, 14, and 16 are for graduates and undergraduates.
Courses 17, 18, 19, and 20 are for graduates only.

GRAPHICS

1. *Mechanical Drawing.* A

Professor HAZEN and Messrs. MULLINS and WELCH.

First Semester, 3 hrs.

An introductory course treating of the instruments used and the methods of using them. It includes the construction of engineering, mechanical, and architectural drawings, lettering, and shading.

2. *Mechanical Drawing (continued).* A

Professor HAZEN and Messrs. MULLINS and WELCH.

Second Semester, 3 hrs.

Tinting. Descriptive Geometry as applied to elementary projection drawing.

3. *Descriptive Geometry.* B

Professor HAZEN. First Semester, 3 hrs.

Descriptive Geometry, as applied to third-angle projections and to the construction of projections and sections from models and actual structures; to the representation by drawings or projections of all geometrical magnitudes; and to the intersections and tangencies of developable, double-curved, and warped surfaces.

4. *Descriptive Geometry (continued).* C

Professor HAZEN. Second Semester, 3 hrs.

Descriptive Geometry continued, and applied to spherical projections, shades, and shadows, and linear perspective, axonometric projections, and cavalier perspective.

Courses 1, 2, 3, and 4 are required for the subsequent election of the Thayer Engineering Course.

5. *Topographical and Machine Drawing.* C

Professor HAZEN. First Semester, 3 hrs.

A course in topographical drawing, machine drawing, and gearing problems, including tracing and blue-printing.

For further courses in Graphics see Thayer School of Civil Engineering.

CIVIL ENGINEERING

2. *Surveying.* B

Professor HAZEN and Mr. MULLINS. Second Semester, 3 hrs.

Surveying with level, transit, and compass; the adjustments, care, and proper methods of using these instruments. This course includes the methods of determining areas; laying out and dividing

land; practice with the solar transit used in surveying the public lands; determination of true meridian by the sun and polar star; levelling for profiles, city surveying, plotting, and computing from field notes taken in connection with the above work.

For further courses in Engineering see Thayer School of Civil Engineering.

PHYSICS

1 and 2. *General Physics.* A

Professors HULL and BROWN, and Messrs. BATCHELDER and STETSON. First and Second Semesters, 3 hrs.

A study of the phenomena and simpler laws of Mechanics, Sound, Heat, Electricity, Magnetism, and Light. Instruction is given by lectures with an ample number of illustrative experiments, by recitations and frequent examinations upon the lectures and text-book assignments.

Text, Crew's *General Physics.*

Courses 1 and 2 belong together and should not be elected separately. Earlier work in Physics is not required for entrance to these courses, but Mathematics 1 and 2, or their equivalents, are a prerequisite.

Physics 3 and 4 may be carried at the same time with 1 and 2. Students intending to specialize in the physical sciences, or who wish to complete a Minor in Physics early in the College course, are advised to elect Courses 1, 2, 3, and 4 in Sophomore year.

3. *Practical Physics.* B

Professors GILBERT and BROWN, and Messrs. COGGINS, STETSON, and TILESTON. First Semester, 3 hrs.

A course in the theory and use of instruments of precision and in the experimental verification and application of physical laws. In particular, the micrometer and vernier calipers, the spherometer, and the micrometer eyepiece are used for measuring length; the seconds clock, stop-watch, chronograph, and tuning-fork for measuring time; spring, pan, and analytical balances, and inertia methods for measuring mass; the laws of the pendulum and of falling bodies are used to determine "g"; the laws of forces, moments, moments of inertia, centres of mass, Hooke's, Boyle's, and Charles's laws are verified; the densi-

ties of solids and liquids are measured in a number of ways; the laws of vibrating strings, the measurement of the period, wave-length, and velocity of propagation of wave disturbances in different media are determined.

While care in manipulation and accuracy of observation are required of the student, it is also essential that he understand thoroughly the principles involved in the experiments. Oral reviews and tests will be held at convenient intervals to determine to what extent these principles have become a part of the student's knowledge.

A laboratory manual (Gilbert) will be used by the student; other texts will be consulted. Laboratory fee, $3.

4. *Practical Physics (continued).* B

Professors GILBERT and BROWN, and Messrs. COGGINS, STETSON, and TILESTON. Second Semester, 3 hrs.

A continuation of Course 3, extended into the study and experimental verification of the general laws of Heat, Electricity, Magnetism, and Light.

In Heat, experiments are performed in the study of thermometers, in calorimetry, in the expansion, due to heat, of solids, liquids, and gases, and in the measurement of specific and latent heats.

In Electricity and Magnetism, the exercises include the mapping of magnetic fields and lines of current-flow, the measurement of the strength of magnetic fields, electrostatic capacities, the resistance of wires, batteries, and galvanometers, the electromotive force of batteries, galvanometer factors, the electrochemical equivalent of hydrogen, the mechanical equivalent of heat, the efficiency of a motor and of a generator, and the use of the D'Arsonval, Thomson, and tangent galvanometers, and of ammeters and voltmeters.

In Light, the laws of photometers and mirrors, the measurement of the focal length and magnifying power of lenses and combinations of lenses, the index of refraction of glass, the spectra of a number of substances, the wave lengths of light, and the simple laws of polarization and double refraction are determined or verified. Laboratory fee, $3.

5. *Analytic Mechanics.* C

Professor HULL. First Semester, 3 hrs.

A course of lectures on Statics, including the composition and resolution of forces acting on a particle and on a rigid body; efficiency of

machines, sensitiveness of a balance, equilibrium of flexible strings, and the elementary theory of attractions; kinematics; dynamics, the motion of projectiles, collision of elastic bodies, simple harmonic motions and central orbits. Without sacrificing the rigidity of mathematical deductions, recourse will be had, where occasion permits, to experimental illustrations. Prerequisites, Differential and Integral Calculus, and Physics 1 and 2.

6. *Theory of Heat.* C

Professor HULL. Second Semester, 3 hrs.

A course of lectures and recitations on the theory of Heat; thermodynamics, including the elementary kinetic theory of gases, and the theory of solutions. Lectures and text references. Prerequisites, Differential and Integral Calculus and Physics 1 to 4.

7. *Theory of Light.* C

Professor HULL. First Semester, 3 hrs.

This course will consist of lectures, experimental and theoretical, recitations, and laboratory work. The domain covered will be nearly that of Wood's *Theory of Light.*

Offered in 1908–1909.

8. *Spectroscopy and Radiation.* C

Professor HULL. Second Semester, 2 hrs.

The course will include a critical study of the spectroscope, interferometer, concave and echelon gratings as analysers of radiation; of the bolometer, thermopile, and radiometer in the measurement of radiant energy; of the nature of spectra and of the relations holding between the lines of a spectrum; and of the changes produced in spectra by various conditions. The course (a continuation of Course 7) is intended for those who expect to specialize in Physics or Astronomy. Baly's Spectroscopy will be used as a text.

Offered in 1908–1909.

9. *Electricity and Magnetism.* C

Professor GILBERT. First Semester, 3 hrs.

A course of lectures and recitations on the theory of electricity and magnetism, following for the most part J. J. Thomson's text.

Applications of the theory will be made by the students in the study of electrometers, the inductive capacity of dielectrics, stream and equipotential lines, and galvanometers. Prerequisites, Differential and Integral Calculus and Physics 1 to 4.

10. *Electricity and Magnetism, Alternating Currents.* C

Professor GILBERT. Second Semester, 3 hrs.

A course of lectures and recitations on the theory of alternating currents with applications to wattmeters, measurement of hysteresis, transformers, alternators, synchronous and induction motors, transmission of power, etc. Text-book, *Alternating Currents*, by Franklin and Williamson. Prerequisite, Physics 9.

11. *Advanced Laboratory Work.* C

Professor GILBERT. First Semester, 2 hrs.

A course in electrical measurements. Prerequisites, Physics 9, but Physics 9 and 11 may be taken together. Laboratory fee, $3.

12. *Advanced Laboratory Work.* C

Professor GILBERT. Second Semester, 2 hrs.

A course in the measurement of alternating currents, use of wattmeter, efficiency of transformer, etc. Prerequisite, Physics 10, but Physics 10 and 12 may be taken together. Laboratory fee, $3.

13. *Advanced Laboratory Work.* C

Professor HULL. First Semester, 2 hrs.

Laboratory exercises connected with the dispersive power of glass; the measurement of the wave lengths of light by the grating and interferometer; the use of the interferometer in the measurement of small distances and in the analysis of radiations; the use of the echelon prism; the study of various interference, diffraction, and polarization phenomena. Laboratory fee, $3.

15 and 16. *Physical Seminar.*

Professors HULL, GILBERT, and BROWN.

First and Second Semesters, 2 hrs.

A seminar for the discussion of the current periodical literature and special research problems in Physics.

17 and 18. *Research Problems.*

Professors HULL, GILBERT, and BROWN.

First and Second Semesters, 3 hrs.

A course in investigation and research problems in Physics.

Of the foregoing, Courses 1 to 5 may be elected by undergraduate students only, 6 to 13 are open both to undergraduates and graduates, 15 to 18 are open only to graduate students.

The requirement for a Minor in Physics includes Courses 1, 2, 3, and 4. The requirement for a Major includes Courses 1, 2, 3, and 4, and any three of the advanced Courses 5 to 13 inclusive.

ASTRONOMY

1. *Descriptive Astronomy.* A

Professor POOR. First Semester, 3 hrs.

A recitation course in general descriptive Astronomy, supplemented by occasional lectures and visits to the Observatory. The previous study of elective courses in Mathematics is not necessary. Prerequisite, Physics 1 and 2. (Young's *Manual of Astronomy.*)

2. *Spherical Astronomy.* B

Professor POOR. Second Semester, 3 hrs.

A recitation course in the relation of Spherical Trigonometry to Practical Astronomy with practice in computation. Students will make observations with the Sextant, Meridian Circle, Equatorial and Transit Instrument, and perform the necessary reductions. Prerequisite, Astronomy 1. (Campbell's *Practical Astronomy.*)

3. *Practical Astronomy.* C

Professor POOR. First Semester, 3 hrs.

A continuation of Course 2. The method of Least Squares will be briefly studied. Prerequisites, Astronomy 2 and Differential and Integral Calculus. (Chauvenet's *Practical Astronomy.*)

4. *Practical Astronomy (or Astrophysics).* C

Professor POOR. Second Semester, 3 hrs.

A continuation of Course 3, or, if the class so desire, such work in Astrophysics as can be carried on at the Observatory, supplemented

by reading from astrophysical papers and the reduction of astrophysical observations. Prerequisite for Practical Astronomy, Astronomy 3; for Astrophysics, Astronomy 2 and Differential and Integral Calculus.

6. *Elementary Celestial Mechanics.* B

Professor POOR. Second Semester, 3 hrs.

An elementary course dealing especially with problems in the mechanics of solar and stellar systems. Prerequisites, Astronomy 1, Differential and Integral Calculus. (Moulton's *Celestial Mechanics.*)

7. *Celestial Mechanics.* C

Professor POOR. First Semester, 3 hrs.

Prerequisite, Analytic Mechanics, or Differential Equations, or Astronomy 6. (Moulton's *Celestial Mechanics.*)

8. *Celestial Mechanics.* C

Professor POOR. Second Semester, 3 hrs.

A course of reading from standard works on Celestial Mechanics. Prerequisite, Astronomy 7.

CHEMISTRY

2. *Chemistry of the Non-Metallic Elements.* A

Professor BARTLETT and Messrs. RICHARDSON and GLATTFELD. Second Semester, 3 hrs.

Lectures, recitations, and laboratory work. In this course special emphasis is laid upon the general principles of Chemistry, the Notation in its experimental and arithmetical meaning, upon Nomenclature and Terminology in their applications. Some familiarity with the properties of chemical substances and with processes is acquired. A beginner's course, open to students who have had no chemistry in their preparation for College. Laboratory fee, $2.

3. *Metallic Elements and their Compounds.* A

Professor BOLSER and Messrs. RICHARDSON and GLATTFELD. First Semester, 3 hrs.

This course reviews rapidly the ground work preparatory to the study of the more difficult compounds of the non-metallic elements

and continues the study of these elements and the metals by lectures, recitations (Newth's *Inorganic Chemistry*), and by Qualitative Analysis in the laboratory. For completeness students who elect this course should elect Course 4 also. It divides the time about equally between one-hour recitations and two-hour laboratory exercises. Open to all students who have passed Course 2, or its equivalent.

Entrance Physics, or Physics 1, is a desirable foundation for this course. Laboratory fee, $3.

4. *Continuation of Course* 3. A or B

Professor BOLSER and Messrs. RICHARDSON and GLATTFELD.
Second Semester, 3 hrs.

The study of the Metals and their compounds is completed, and more complex problems of Qualitative Analysis are introduced. Practice in Arithmetical calculations. Laboratory fee, $3.

5. *The Carbon Compounds.* B or C

Professor BOLSER and Mr. GLATTFELD. First Semester, 3 hrs.

A course for beginners in organic chemistry. Two-thirds of the exercises are recitations or lectures and one-third are laboratory exercises. The object of the course is to ground the student in fundamental theory and to acquaint him with laboratory method. Open to students who have completed Courses 3 and 4. Laboratory fee, $4.

6. *The Carbon Compounds.* B or C

Professor BOLSER. Second Semester, 3 hrs.

With Chemistry 5 as a ground work, this course will deal with the more complex organic chemistry in lectures and recitations. In the laboratory the preparation of compounds illustrating important reactions and synthetical processes will be required. Open only to students who have completed Course 5. Laboratory fee, $4.

7. *Quantitative Analysis.* B or C

Professor BARTLETT. First Semester, 4 hrs.

A course in the laboratory arranged from standard text and reference books. Elementary gravimetric and volumetric methods. Open to students who have completed Course 4 with a rank of at least 75.

This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, $4.

In general it is not considered advantageous for students to take Courses 5 and 7 during the same year, and it will not be allowed except in the case of Seniors, or others who receive special permission from the instructors.

8. *Quantitative Analysis (continued).* C

Professor BARTLETT. Second Semester, 4 hrs.

A continuation and advancement of Course 7 with more complex analyses and their applications. Open only to students who have completed Course 7 with a rank of at least 75. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, $4.

10. *Historic and Economic Chemistry.* C

(*a*) Mr. RICHARDSON, (*b*) Professor BARTLETT.

Second Semester, 2 hrs.

(*a*) Lectures and readings on the history of the development of chemistry.

(*b*) Lectures on the sources, manufacture, and uses of chemical materials.

Open only to students who have completed Course 4.

11 and 12. *Inorganic Preparations.* C

Mr. RICHARDSON. First and Second Semesters, 3 hrs.

The preparation of inorganic compounds supplemented by informal lectures upon general chemistry. Requirement, Chemistry 3 and 4 and one additional year of Chemistry. To be elected only with the consent of the instructor. Laboratory fee, $5.

13 and 14. *Organic Compounds.* C

Professor BOLSER. First and Second Semesters, 3 hrs.

A course in the preparation of some of the more complex organic compounds and in organic analysis. To be elected only with the consent of the instructor. Laboratory fee, $4.

15 and 16. *Advanced Quantitative Analysis.* C

Professor BARTLETT. First and Second Semesters, 4 hrs.

Open to graduates and undergraduates who have completed Course 8, and who have consulted the instructor and received his approval. Laboratory fee, $4.

17 and 18. *Organic Compounds.* C

Professor BOLSER. First and Second Semesters, 3 hrs.

19 and 20. *Quantitative Analysis.* C

Professor BARTLETT. First and Second Semesters, 4 hrs.

17 and 18, and 19 and 20 are advanced courses in continuation of 13, 14 and 15, 16. They are open to graduates and in special cases to undergraduates who have completed the previous courses. They involve special problems of minor research.

All students electing the quantitative courses must conform to a fixed hour each week announced in the elective circular.

Required for the Thayer School, Courses 2, 3, 4; preliminary to the study of Medicine not less than 2, 3, 4, 5, 7.

For students who have not presented Chemistry for entrance, a Minor consists of 2, 3, 4 and either 5 or 7. A Major consists of 2, 3, 4 and one of the following combinations, 5, 6, 7; 5, 7, 8; 5, 7, 11; 7, 11, 12.

For students who have presented Chemistry for entrance, a Minor consists of 3, 4 and one of the following combinations, 5, 6; 5, 7; 7, 8. A Major consists of 3, 4, 5, 6, 7, 8; or 3, 4, 5, 7, and two C courses. Course 10 may in some cases be combined with a four-hour course to meet the requirements for a Major.

BIOLOGY

ZOÖLOGY AND BOTANY

The courses in Zoölogy and Botany are designed for three classes of students, namely: (*a*) for those who wish to know something of the elementary principles and aims of the science; (*b*) for those who intend to study medicine; and (*c*) for those who expect to teach the

natural sciences, or who for any reason are interested in the subject and wish to give it special attention.

Courses 1, 1 a, 2, 3, 4, 5, and 6 are elementary in character, and are intended for those who desire a comprehensive view of the subject. Those who intend to study medicine will find the following courses of especial value as a preparation for the study of human anatomy, physiology, and bacteriology: namely, Biology, 1, 1 a, 2, 3, 4, 5, 7, 9, and 10. Courses 1, 1 a, 2, and 10 will be useful to students of psychology.

While the above-named courses have been modelled to meet the requirements of the general student and of those who have a medical career in view, the symmetry and continuity of the entire series of courses have been maintained in order to meet the requirements of those who expect to teach the natural sciences or to become professional biologists.

Biology 1 and 2 are continuous and dependent courses in Elementary Biology. They are designed for those students who desire some knowledge of the fundamental facts and principles of animal and plant life, and of the modern methods of solving biological problems.

Biology 1 should not be elected unless the student intends to take Biology 2. Biology 1 and 2 are prerequisites for all other courses in Zoölogy and Botany.

1. *Elementary Biology* (*Botany*). A

Mr. CHIVERS and Dr. GRIGGS. First Semester, 3 hrs.

An introductory course giving a general survey of the vegetable kingdom. The lectures treat of the physiology, morphology, and reproduction of plants, and of the relation of fungi and bacteria to fermentation, putrefaction, and disease. The laboratory work consists largely of the microscopic examination of some of the principal representatives of the vegetable kingdom. Laboratory fee, $3.

1 a. *The Principles of Biology.* A

Professor PATTEN. First Semester, 2 hrs.

A course of lectures on the structure and activities of plants and animals, with a discussion of the principal phenomena of nutrition, growth, reproduction, heredity, variations, distribution, natural selection,

and evolution. The course is designed especially for those who desire a brief statement of the principles and aims of the science, and as a preparation for Biology 1 and 2. It must be taken with, or before, Biology 1. It will count but one hour for those who have already taken more than two courses in Biology.

2. *Elementary Biology (Zoölogy).* A

Dr. GRIGGS, Professor GEROULD, and Mr. CHIVERS.

Second Semester, 3 hrs.

An introduction to the study of animal life. The structure of a series of typical animals is studied in the laboratory. The lectures supplement the laboratory work on animal forms and relationships and treat of the physiology, habits, life histories, and economic importance of animals. (Jordan, Kellogg and Heath's *Animals.*) Laboratory fee, $3.

3. *Invertebrate Zoölogy.* B

Professor GEROULD. First Semester, 3 hrs.

This is a course in the comparative anatomy, embryology, and physiology of the invertebrates. Attention is given to the interrelation of the various phyla, to the maturation, fertilization, and cleavage of the ovum, the formation of germ layers, larval development, and to the relation of each species to its environment. Several examples from each of the more prominent phyla are studied in the laboratory, including the more important parasites of interest to the student of medicine. (Osborn's *Economic Zoölogy*, Hertwig's *Manual of Zoölogy.*) Laboratory fee, $3.

4. *Comparative Anatomy of Vertebrates.* B

Professor PATTEN. Second Semester, 3 hrs.

The outlines of the classification of vertebrates, the homologies, and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes and related forms up to man and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. The course is intended for those especially in-

terested in zoölogy, or for those who wish to lay a broad foundation for the study of human anatomy, physiology, or comparative psychology. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*.) Laboratory fee, $3.

5. *Cryptogamic Botany.* B

Professor LYMAN. First Semester, 3 hrs.

A course on the lower plants, treating of the classification, structure, activities, and life histories of typical representatives of the various orders, attention being paid to those forms that are of pathogenic or of economic interest, and to the making of artificial cultures and culture media. Laboratory fee, $3.

6. *Phanerogamic Botany.* B

Professor LYMAN. Second Semester, 3 hrs.

A course on the higher plants, continuing the work of Course 5, and completing the survey of the plant kingdom. It treats of the morphology and development of the flowering plants, embracing the main topics of their structure, functions, and habits, together with their classification, distribution, and adaptations. Laboratory fee, $3.

7. *Cytology.* B or C

Professor GEROULD. First Semester, 3 hrs.

This course treats of the structure and activities of animal and of plant cells. The structure of protoplasm, its physical and chemical properties, the theories of heredity, cell-division, and the effects of nutrition, stimulation, and exhaustion of cells are discussed. (Verworn's *General Physiology*, Wilson's *The Cell*.) Students electing this course should have a knowledge of Elementary Chemistry. Laboratory fee, $3.

9. *Vertebrate Embryology.* C

Professor PATTEN. First Semester, 3 hrs.

A study of the embryology of the frog, the chick, and a mammal. Open only to those who have done satisfactory work in Biology 1, 2, and 4. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, Heisler's *Embryology*.) Laboratory fee, $3.

10. *Comparative Anatomy and Physiology of the Nervous System and Sense Organs.* B or C

Professor GEROULD. Second Semester, 3 hrs.

A course of lectures and laboratory work illustrating the structure and evolution of the nervous system and sense organs, with special reference to their physiology. A desirable course for students of medicine or psychology. Open to students who have taken Courses 1 and 2. (M'Kendrick and Snodgrass' *Physiology of the Senses*, Burkholder's *Anatomy of the Brain.*) Laboratory fee, $3.

12. *Vegetable Histology and Physiology.* C

Mr. CHIVERS. Second Semester, 3 hrs.

A study of the minute structure of the higher plants, and of the development of tissues and organs is combined with experiments on the properties of protoplasm and its relation to external stimuli, nutrition, growth, etc. Attention is paid to methods of histological technique, — killing, staining, sectioning, etc. This course should be preceded by Course 6 or its equivalent, and some knowledge of Physics and Chemistry is desirable. Laboratory fee, $3.

13 and 14. *Morphology of Plants.* C

Professor LYMAN. First and Second Semesters, 3 hrs.

A field and laboratory course treating of the collection, preservation, and analysis of plants, and of the morphology and systematic arrangement of the various groups. The subject matter of the course will vary to accommodate those preparing for more advanced work in systematic botany or for the study of forestry, or of some other branch of applied botany. Students proposing to elect this course should consult the instructor before the close of the preceding college year. Open to those who have taken Courses 5 or 6. Laboratory fee, $3.

16. *Zoölogical Seminar.* C

Professor PATTEN. Second Semester, 2 hrs.

A discussion of special problems in Biology and a review of the current literature. Designed primarily for those students who intend to do graduate work in Biology. A reading knowledge of French and German is essential.

17 and 18. *Research Work.*

Professor PATTEN. First and Second Semesters.

Research courses in animal morphology leading to advanced degrees.

The requirements for a Minor in Biology are Courses 1 and 2, and any two of Courses 3, 4, 5, 6, 7, and 10, or Physiology 1 and 2. The requirements for a Major are any two of Courses 7, 9, 10, 12, 13, 14, 16, in addition to the requirements for a Minor.

PHYSIOLOGY

1. *Physiology.* B

Professor STEWART. First Semester, 3 hrs.

A course of lectures, with demonstrations and occasional quizzes on the physiology of muscle and nerve, blood, circulation, respiration, and animal heat.

Courses 1 and 2 form a continuous series of lectures, and should not be elected separately. Prerequisites: Biology 1 and 2, Physics 1 and 2, and Chemistry 2.

2. *Physiology.* B

Professor STEWART. Second Semester, 3 hrs.

A continuation of Course 1, with lectures and demonstrations on the physiology of digestion, metabolism, secretion, excretion, the nervous system and the special senses.

3. *Physiology.* C

Professor STEWART. First Semester, 3 hrs.

A course of laboratory work, with demonstrations and recitations, covering the physiology of muscle and nerve, digestion, metabolism, secretion and excretion.

Courses 3 and 4 are continuous, and should not be elected separately. Prerequisite, Physiology 1 and 2.

4. *Physiology.* C

Professor STEWART. Second Semester, 3 hrs.

A direct continuation of Course 3, treating in the same way the physiology of blood, circulation, respiration, animal heat, the nervous system, and the special senses.

5 and 6. *Physiology.*

Professor STEWART. First and Second Semesters, 3 hrs.

An advanced course of lectures continuing throughout the year. Subject for 1908–1909: "Recent advances in the physiology of the

nervous system." The course is open to those who have completed Courses 1 and 2 or 3 and 4.

7 and 8. *Physiology.*

Professor STEWART. First and Second Semesters, 3 hrs.

Research work, with thesis. Open only to those who have completed Courses 1 and 2 or 3 and 4. At least six hours each week for two semesters. Hours to be arranged by appointment. Material at cost.

A Minor in Physiology is secured by combining Biology 1 and 2 with Physiology 1 and 2; a Major by completing Physiology 3 and 4 in addition to the Minor.

MEDICAL SCHOOL COURSES

(OPEN TO COLLEGE STUDENTS)

HISTOLOGY

1. *Human Histology.* B

Dr. GRAHAM. First Semester, 3 hrs.

Laboratory work with recitations during the last few weeks of the course. The elementary tissues are first studied, then the various organs, including special study of the brain and cord. Each student may prepare and retain sections. This course extends through the first two-thirds of the year.

BACTERIOLOGY

2. *Bacteriology.* B

Dr. GRAHAM. Second Semester, 3 hrs.

Laboratory demonstrations, supplemented by recitations. The aim in this course is to make it as practical as possible. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria, the technic of the Widal serum diagnosis in typhoid fever, and to staining pus. Each student is required to isolate a number of different organisms. Special instruction is given to any student desirous of doing research work, either in bacteriology or pathology. Six hours in the laboratory each week. This course follows Histology, and extends through the last third of the year.

HUMAN ANATOMY

1 and 2. *Human Anatomy.* C

Professor FROST and Dr. P. BARTLETT.

First and Second Semesters, 3 hrs.

Osteology, arthrology, and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. Opportunity is offered to follow the dissections of the human body made by the medical students of the second and third years. The written examinations covering the work in osteology and arthrology, if satisfactory, are final. (Gray's *Anatomy*, last edition.)

PHYSICAL EDUCATION

1 and 2. *Physical Education.*

Professor BOWLER. First and Second Semesters, 1 hr.

A course of lectures on physical culture, combined with practical work in the gymnasium, for the Freshman class. The lectures will cover the gross human anatomy, physiology of muscular exercises, personal hygiene, dietetics, etc.; in general, sanitary and moral prophylaxis. The lectures will be given the first part of the first semester and the last part of the second; the work in the Gymnasium occurs in the middle of the College year; the examination for the entire work of the year takes place at the close of the second semester.

GEOLOGY

1 and 2. *General Geology.* A

Professor GOLDTHWAIT. First and Second Semesters, 3 hrs.

An introductory course in Dynamical, Structural, and Historical Geology. The first semester is devoted to a study of the natural geological agencies at work in and on the earth, and of the records which they are making. In the second semester attention is given to the past history of the earth, as interpreted from the geologic record.

There are three exercises each week: two class meetings for recitation and lecture; and one exercise in laboratory or field work. During

the first six weeks of the fall and the last six weeks of the spring, a half-day excursion is made to near-by localities where the geological agencies may be seen in action, or where rock structures or surface features of especial significance may be seen and discussed. During the rest of the year, the third exercise is a two-hour laboratory period for the study of topographic and geologic maps and models, mineral and rock specimens, and fossils. Text-book, Chamberlin and Salisbury's *Geology*. Laboratory fee, $4.

3 and 4. *Elementary Mineralogy.* A

Professor GOLDTHWAIT. First and Second Semesters, 4 hrs.

This course affords: (a) training in methods of identifying the common minerals; and (b) a systematic study of these minerals, following the order of Dana's classification.

In the first semester about six weeks are given to the elements of crystallography and the use of blowpipe analysis and physical and chemical tests in the recognition of minerals. The rest of the year is occupied with a study of the minerals themselves. There are two class meetings for recitation or lecture, and two two-hour laboratory periods each week. A working knowledge of Inorganic Chemistry is prerequisite. Laboratory fee, $5.

5. *Areal Geology.* B

Professor GOLDTHWAIT. First Semester, 4 hrs.

This course consists of the detailed study of the bed-rock geology of some selected area easily accessible from Hanover. A portion of this area is assigned to each member of the class, two men working together on a district. Rock specimens are collected, a geologic map and cross sections are made, and a report is prepared.

During the fall, two half-days a week (or their equivalent) are given to the field work, the hours being arranged to suit the convenience of each member; and one class meeting is held each week for discussion of progress in the field work, and conference on results. After the close of the field season a second class meeting and a two-hour appointment for library and laboratory work takes the place of the outdoor work. Opportunity is given for studying the rock collections and maps of the State Surveys of New Hampshire and Vermont, which are exhibited in the Museum of Geology.

Open to those who have completed Courses 1 and 2.

8. *Surficial Geology.* B

Professor GOLDTHWAIT. Second Semester, 3 hrs.

This course deals with the origin and meaning of land forms and of surficial deposits, especially those of glaciated regions like New England. There are two lectures and one two-hour period for library or laboratory work each week. During May and June several excursions are arranged to places where the development of surficial features characteristic of New England are seen and discussed.

Open to those who have completed or are taking Courses 1 and 2.

HISTORY

The courses in History are intended for two classes of students. (1) To those desiring an outline of historical development from ancient to modern times are offered Courses 1–9.

(2) For students having some especial interest in the particular period covered, or desiring training to teach History, Courses 10–16 are designed. These courses are devoted to a more critical study of selected topics in the period already covered in outline, and to the presentation of results in the form of reports or theses.

1 and 2. *Mediæval and Modern European History.* A

Professors FOSTER (absent for the year) and FAY, Dr. SHEARER, Mr. LINGLEY and Mr. BASYE. First and Second Semesters, 3 hrs.

Courses numbered 1 and 2 are treated as a continuous year's course in European History from 375 to 1789 A.D. A detailed outline of the lectures, the map and written work, and the recitations on lectures, text-books, and collateral reading will be found in Foster and Fay's *Syllabus of European History from the German Invasions to the French Revolution* (Revised Edition). In addition to the recitations, the work will be tested by conferences with the instructors and by short written quizzes at the lecture or recitation. A minimum amount of collateral reading is required of all, but it is hoped that the student's interest will lead him into independent reading beyond any requirements. Lecture course, with text-book, readings, and recitations.

Students taking Course 1 must take Course 2 the next semester. Courses 1 and 2 are required for all subsequent courses

in History, except that 3 may be taken with 1, and 4 with 2; History 1 and 2, or Greek 7 and 8a, or Latin 3 and 6 are required for all courses in Economics and Political Science; History 1 and 2, or Greek 7 and 8b, or Latin 3 and 4 are required for English 15.

3. *History of England to the Sixteenth Century.* B or C

Dr. SHEARER. First Semester, 3 hrs.

This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. The course is open to those who are taking History 1, or who have attained an average rank of at least 60 in History 1 and 2. Lectures, readings, recitations, and reports. Required for admission to Course 4.

4. *History of England and the British Empire from the Sixteenth Century.* B or C

Dr. SHEARER. Second Semester, 3 hrs.

This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, readings, recitations, and reports.

7. *American Colonial History to 1788.* B or C

Mr. BASYE (in the absence of Professor FOSTER).

Second Semester, 3 hrs.

This course is intended to trace the beginnings of the American nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union. Students who have not had a good course in English History in the secondary school are advised, but not required, to precede this course by Courses 3 and 4. Lectures, readings, recitations, and reports.

8. *Political History of the United States (1783–1877).* B or C

Mr. LINGLEY. Second Semester, 3 hrs.

This course will follow mainly the political and constitutional development of the United States from the close of the Revolution to the end of the Reconstruction period. Most emphasis will be laid upon (1) the adoption of the Constitution and the origin and development of political parties, (2) the rise of slavery and the coming of the Civil War, (3) Reconstruction, closing with the disputed election and the withdrawal of troops from the South. Discussion of the Civil War will be political and economic, not military. In the study of the Reconstruction period, an attempt will be made to lay the foundations of an understanding of the South of the last thirty years. Text-book, lectures, readings, recitations.

9. *The Historical Development of Modern Europe (1789–1900).* B or C

Professor FAY. First Semester, 3 hrs.

The first part of this course aims to explain the political, social, and intellectual conditions which caused the French Revolution, and to give a brief narrative of the French Revolution itself and of the rise and fall of Napoleon. The second part traces the formation of the present States of continental Europe, and closes with some account of the actual government of each. The course is thus a continuation of History 2 and an introduction to an understanding of the political conditions and questions of the Europe of to-day. The course is open to those who have passed History 1 and 2 with an average rank of at least 60 per cent. Lectures, text-book, readings, reports, and recitations.

10. *The History of Prussia.* C

Professor FAY. Second Semester, 3 hrs.

This course will trace by lectures Prussia's growth from a Mediæval Electorate to her position as leading state in Germany. A considerable part of the time will be devoted to a detailed study of special problems in the history of Prussia and of her neighbors in the seventeenth century; this will give an opportunity for historical criticism and investigation on the part of the students. Oral reports will be

presented by members of the class and discussed in class. This course is open to those who have passed History 1 and 2 with an average rank of at least 60 per cent. A reading knowledge of either French or German is practically necessary.

12. *Italian Renaissance.* B or C

Second Semester, 3 hrs.

This is a co-operative lecture course given by instructors in the fields of History, Economics, Archæology, Fine Arts, Ancient and Modern Languages, and the Natural Sciences. It is designed to show the origin and nature of the Renaissance movement in Italy; the wide range and close interrelation of its varied manifestations; and its far-reaching results in the different fields of knowledge and human activity. Lectures, collateral reading, frequent written quizzes or reports, and a thesis. This course is open only to students who have passed History 1 and 2 with a grade of at least 60. A reading knowledge of at least one language besides English is very desirable.

This course is given in alternate years. It is not offered in 1908–1909.

14. *The Reformation Era.* B or C

Professor FOSTER. First Semester, 3 hrs.

This course traces certain phases of the transformation of Mediæval into Modern Europe (1300–1600), from the age of Dante to that of Shakespeare and Calvin, and includes such topics as the following: church and papacy at the close of the middle ages; early criticisms and attempts at reform under Wycliffe and Huss; the revival of learning; the Protestant Revolt; the personalities and work of Luther, Zwingli, and Calvin; the reform within the Catholic church; the beginnings of Puritanism in England and Scotland; the influence of the era upon political liberty. This course is more advanced than the earlier narrative courses (1–9), is intended for those especially interested in the period or desiring especial training in the study or teaching of history, and is open only to students who have attained an average rank of at least 60 in History 1 and 2. Lectures, discussions, and reports.

Not offered in 1908–1909.

16. *The Puritan State.* C

Professor FOSTER. Second Semester, 3 hrs.

This is a study, based as far as possible on contemporary documents, of the Puritan experiment in government (1) in Geneva, under Calvin's influence, 1536–1564; (2) in England and Scotland in the sixteenth and seventeenth centuries; and (3) in Massachusetts Bay, 1630–1691. It is an advanced course intended for graduate students or those who wish to do special work in History, who can read French or German, and who have taken History 1–7, or a satisfactory equivalent. Lectures, thesis, and discussions.

Not offered in 1908–1909.

A Minor in History is obtained by taking in addition to History 1 and 2 two other courses in History. A Major in History is obtained by taking in addition to History 1 and 2 four other courses.

ECONOMICS

Greek 7 and 8 a, or Latin 3 and 6, or History 1 and 2 are required for all courses in Economics.
Courses 1 and 2 are required for all other courses in Economics, except that 3 may be taken with 1, and 4 with 2.

1 and 2. *Elementary Economics.* A

Professor WICKER and Dr. HUSE.

First and Second Semesters, 3 hrs.

In these two courses the attempt is made to give the student the currently accepted scientific analysis of modern industrial society. They seek to accomplish a threefold purpose: to teach fundamental principles in such a way that they may be applied to the duties of enlightened citizenship; to open up the general field of Economics in the way most helpful for further more detailed and extensive study in the same field; and to offer to those intending to adopt business as a profession such general rules and principles as are contributed to business by the science of Economics.

While the courses concern themselves primarily with economic theory, — with the most general principles of consumption, production, exchange, and distribution, — the theory itself is developed from and illustrated by a study of actual economic processes and conditions. Thus due attention is paid to the problems of money and banking, the tariff, monopoly, labor, etc., in such a general way that later intensive study of these problems may be based upon the foundations thus laid. Text-book, lectures, and collateral readings. (First semester, Ely and Wicker's *Elementary Principles of Economics* and Bullock's *Selected Readings in Economics;* second semester, advanced text or texts.)

Course 1 is a prerequisite for Course 2.

3. *Economic History of the United States.* B

Professor DIXON. First Semester, 3 hrs.

Sketch of the development of English industry and commerce to the eighteenth century, followed by a more careful study of the Industrial Revolution. With this as a background, the development of the United States, both industrial and commercial, is treated in the form of lectures, the relation of economic to social and political factors being constantly noted. The following are some of the topics considered: the land policy of the government, the movement of population, and the development of agricultural resources both North and South, including the economic effects of slavery; the origin and development of the extractive and manufacturing industries; transportation development, including turnpikes, canals, and railroads; and a sketch of commercial development, including a brief history of protectionism. Lectures, text-books, and collateral readings. (Bogart's *Economic History of the United States* and Bullock's *Selected Readings in Economics.*)

4. *Elements of Commercial Geography.* B

Professor PERSON. Second Semester, 3 hrs.

This course aims to bring out the general principles of the relation between man's environment and his industrial life, and then to apply these principles by taking up a study of the various countries as producers and sellers of goods and as markets. While all im-

portant regions are considered in an elementary way, a more detailed study is given to the older industrial countries. Among the facts considered are the following: physical conditions, geology, soils, rivers, climate; the nature and distribution of extractive and of manufacturing industries; imports and exports; industrial aptitudes; business methods; and national peculiarities that determine the particular classes of goods demanded. Lectures and assigned readings.

5. *Money and Banking.* B

Dr. HUSE. First Semester, 3 hrs.

A discussion of the most important features of the institutions of money, banking, and credit, with special reference to their function in the economic life of to-day. The history of money and banking in the United States. Description of the monetary and banking systems of important foreign countries. Discussion of practical problems, such as: changes in the value of money and their effects on prices and incomes, bimetallism, inconvertible paper currency, the relation of the sub-treasury system to the supply of money, proposed modifications in the national banking laws. Lectures on monetary and banking history. (*Report of the Monetary Commission*, Johnson's *Money and Currency*, and Dunbar's *Theory and History of Banking*.)

6. *Public Finance.* B

Dr. HUSE. Second Semester, 3 hrs.

This course deals with public revenues and expenditures and the administration of public funds. An introductory sketch of the development of public finance as a science is followed by a discussion of public expenditures, their growth, classification, and relation to governmental functions. The administrative and legislative work of preparing a budget is described. In the treatment of public revenues special attention is given to problems of state and local taxation. Some of the topics discussed are: theories of just taxation, progressive taxation, the shifting and incidence of taxation, the internal revenue system, the tariff on imports, the general property tax, income and inheritance taxes, special taxes on corporations, the work of state tax-commissions. Public debts are treated with reference to their financial justification and their economic effects. (Daniels' *Elements of Public Finance* and Bullock's *Selected Readings in Public Finance*.)

7. *Industrial Organization.* B

Professor DIXON. First Semester, 3 hrs.

Historical development and analysis of the different forms of industrial organization, including the partnership, joint-stock company, and the corporation, and the later developments, such as the pool, trust, combination, and holding company. Critical discussion of the advantages and disadvantages of recent forms of business organization, illustrated by documents. Elements of the law of corporations, with special reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations, with special reference to taxation. Commerce clause of the Federal Constitution and its growing importance. Lectures, text-books, and assigned readings. (Meade's *Trust Finance* and Ripley's *Trusts, Pools, and Corporations.*)

8. *Transportation.* B

Professor DIXON. Second Semester, 3 hrs.

Steam railroads. (*a*) The railroad problem of the United States, including theories of rates, combination and pooling, consolidation, community of ownership, and government ownership or control, involving a careful consideration of the work of the Interstate Commerce Commission and of State commissions. (*b*) A comparative study of the railroad systems of other countries, especially England, Germany, France, Canada, and the Australian Commonwealth, with a consideration of the economic significance of the world's great railroad systems.

Transportation and communication other than by steam railroads. (*a*) Lake, river, and canal transportation in the United States and other countries. (*b*) Ocean transportation with special reference to its relation to the transportation systems of various countries. (*c*) Interurban railways and their growing competitive power, telegraphs, telephones, and cables. Lectures, text-books, and assigned readings and reports. (Johnson's *American Railway Transportation* and Ripley's *Railway Problems.*

10. *Commercial History and Policy.* C

Professor DIXON. Second Semester, 3 hrs.

Historical study of the tariff policy of the United States, with comparative study of the policy of related countries; commercial

treaties, including the policy of reciprocity; navigation laws, bounties, subsidies, preferential tariffs, and the problem of our merchant marine; the commercial relation of the United States to its recently acquired possessions. Text-books, assigned readings, and reports. (Taussig's *Tariff History of the United States* and Fisk's *International Commercial Policies.*)

12. *Labor.* C

Professor WICKER. Second Semester, 3 hrs.

A preliminary review of the economic theory of labor and wages, followed by a concrete, practical study of the present status of labor. Among the more important topics to be treated are forms of remuneration, labor unions, strikes and boycotts, arbitration and conciliation, labor law in the United States and England. Lectures, recitations, and assigned readings. (Adams and Sumner's *Labor Problems.*)

13. *The Development of Economic Thought.* C

Professor WICKER. First Semester, 3 hrs.

A survey of the history of economic theory as related to the history of economic development. It is the aim of the course to enforce and amplify the student's grasp of economic principles by a study of the development of thought in the economic field. Lectures, recitations, and reports. (Ingram's *History of Political Economy.*)

14. *Present Day Economic Theory.* C

Professor WICKER. Second Semester, 3 hrs.

An advanced course in which mooted points of theory are critically studied in the works of such economists as Marshall, Böhm-Bawerk, Clark, Carver, Fetter, and others. This course is designed as a natural complement to the historical study in the first Semester, as outlined in Course 13. Reports and group conferences.

15 and 16. *Economic Reading.* C

Professors DIXON and WICKER, and Dr. HUSE.

First and Second Semesters, 1 hr.

Readings in French and German economic literature with discussion. Open, by special permission, to students having a good reading knowledge of French or German.

For courses in Statistics and Accounting see section "TUCK SCHOOL COURSES OPEN TO COLLEGE STUDENTS" following. For additional courses allied to those offered in the Department of Economics, see announcement of "The Amos Tuck School of Administration and Finance."

TUCK SCHOOL COURSES

(OPEN TO COLLEGE STUDENTS)

Statistics A (Elementary Statistics). B

Professor PERSONS. First Semester, 2 hrs.

The history, theory, bibliography, and elementary methods of statistics. Statistics of prices, wages, family budgets, public finance, banking, and the like; the graphic method as an aid in the presentation of results; the collection and tabulation of statistical data. Lectures, text-books, and assigned problems. (Mayo-Smith's *Statistics and Economics.*) Economics 1 and 2 are prerequisites.

Accounting A (Theory of Accounting). B

Professor GRAY. First Semester, 2 hrs.

This course is designed to afford the student a knowledge of the conduct of accounts and to aid him in the interpretation of financial statements. It consists of a general review of the principles of accounting and their application, including the elements and economic considerations in accounting. No attempt is made to teach the technical methods of bookkeeping. Collateral reading, reports, and a thesis are required. Economics 1 and 2 are prerequisites.

POLITICAL SCIENCE

Prerequisites: Greek 7 and 8 a, or Latin 3 and 6, or History 1 and 2 are required for all courses in Political Science. Political Science 1 is required for all other courses in this department, except that 7 may be taken with 1. Students who expect to elect any of these courses are advised to take any two of the

following: History 3, 7, 8, and also, if planning to elect Political Science 5 and 6, to pursue Philosophy 2 and English 13.

1. *American Government.* A

Professors REEVES and UPDYKE. First Semester, 3 hrs.

A study of American Political Institutions, including (*a*) a brief introduction to Political Science, describing its nature, relation to other social sciences, and the appropriate method for the study of its phenomena; (*b*) a historical survey of the origin and development of government, both local and general, in the United States; (*c*) a detailed study of the organization and actual working of local, state, and federal governments as they now exist, and their relation to each other and to the individual. The purpose of this course is to acquaint students with some of the leading principles of Political Science, and to prepare them by a study of the nature and tendencies of popular government for the intelligent discharge of the duties of citizenship. Lectures and recitations, with collateral reading and reports.

2. *Comparative Government.* B or C

Professor UPDYKE. Second Semester, 3 hrs.

A comparative study of the National Governments and Parties in the principal European States. A detailed examination will be made of the organization and actual working of the governments of England, France, Germany, and Switzerland. Their different constitutions will be studied as actual systems rather than as documentary texts, and constant comparison will be made between their forms of government, methods of legislation, and administration, and those of the United States. Lectures with text, collateral reading, and reports.

3. *American Constitutional Law.* C

Professors COLBY and REEVES. First Semester, 4 hrs.

A study of the leading principles of American Constitutional Law, federal and statal. In this course the study of government begun in Course 1 will be carried to a more advanced stage. Particular attention will be given to the origin of the written constitution in America, the formation of the early state constitutions, the sources of the Federal constitution, its original text and formal amendments, and its de-

velopment as shown by legislative construction and judicial decisions. Lectures and recitations, supplemented by a critical study of leading cases.

4. *Government of Dependencies.* B or C

Professor UPDYKE. Second Semester, 3 hrs.

A brief examination of the Colonial systems of Spain, France, Holland, and Great Britain, with a special study of the relations of the United States to its dependencies, the administrative methods now employed in them, and some of the resulting problems. Lectures, recitations, readings, and reports.

4a. *Politics in the Far East.* B

Professor UPDYKE. Second Semester, 1 hr.

A brief survey of the present social and political conditions of China and Japan, and the dependencies of Great Britain, Holland, Germany, France, and the United States in the Far East, with a discussion of the resulting international relations.

5. *Elementary Law.* C

Professors COLBY and REEVES. First Semester, 3 hrs.

Outlines of Jurisprudence. This course is intended for students who expect to enter the profession of law, and is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (*a*) a brief historical survey of the Roman Law and of the English Common Law, (*b*) a critical examination of parts of Robinson's *Elements of American Jurisprudence*, and (*c*) a study of selected chapters of Blackstone's *Commentaries*. Lectures and recitations.

6. *Elementary Law (continued).* C

Professors COLBY and REEVES. Second Semester, 3 hrs.

A continuation of Course 5, including selected chapters of Blackstone's *Commentaries* and Wambaugh's *Study of Cases*. Lectures and recitations.

Courses 5 and 6 are directly preparatory for the Law School. They will afford any student pursuing them with serious purpose opportunity to so qualify himself by knowledge of legal ideas and terms, the main facts of legal history, and the method

of legal reasoning, for the work of the Law School, that he may profit immediately from its courses of lectures and its study of cases. Any student electing Course 5 will be expected to elect Course 6.

7. *Municipal Administration.* B

Professor UPDYKE. First Semester, 3 hrs.

A study of municipal activities in the United States, England, Germany, France, and Italy. Among the subjects discussed are: the origin and evolution of the city; the city as agent of the State; the city as local corporate body; municipal organization; municipal politics and elections; municipal functions, such as education, charities, police, public works, and finance; social and economic problems of cities. Lectures and recitations.

8. *International Law.* B

Professor REEVES. Second Semester, 3 hrs.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized States, and their recent modifications by treaty. Recitations and lectures.

9. *Party Government.* B

Professor REEVES. First Semester, 2 hrs.

A study of the theory and development of Party as a Political Institution; a brief survey of the present position of Political Parties in Great Britain, France, and Germany, and a more detailed examination of the organization, methods, and machinery of Political Parties in the United States and their legal control. Lectures, readings, recitations, and reports.

This course is offered in alternate years and will not be given in 1909–1910.

10. *History of American Diplomacy.* B or C

Professor REEVES. Second Semester, 3 hrs.

A survey of the foreign relations of the United States from the Revolution to the treaty of Portsmouth, 1905, with special reference to territorial expansion, the Monroe Doctrine, the Isthmian Canal, the

Fisheries, the Great Lakes, and the diplomacy of the Civil War. Lectures, readings, and reports upon assigned topics.

12. *Theory of the State.* C

Professor COLBY. Second Semester, 2 hrs.

This course will treat of the origin, nature, forms, and purposes of the State, and will trace the development of political theories from Aristotle to Montesquieu. Lectures, readings, and reports.

This course is open only to graduates and undergraduates whose major study is in Political Science. It is offered only in alternate years, and will be given in 1909–1910.

14. *American Political Theories.* C

Professor COLBY. Second Semester, 2 hrs.

A study of the development of American political ideas from the Colonial period to the close of the Civil War, including a critical examination of the writings of John Adams, Jefferson, Otis, Madison, Hamilton, Webster, Lincoln, and others. Lectures, readings, and reports.

This course is open only to graduates and undergraduates whose major study is in Political Science, and will be given in 1908–1909.

15. *History of Civil Liberty.*

Professor COLBY.

A study of the development and formulation of the principles of civil liberty in England and America. This course will include a critical examination and comparison of Magna Charta, the Petition of Right, the Habeas Corpus Act, the Bill of Rights, the Act of Settlement, the Declaration of Independence, and the articles guaranteeing civil liberty in American Constitutions, and will be supplemented by a study of leading cases in English and American Constitutional Law.

Open only to candidates for the degree of Master of Arts.

A Major in Political Science may be obtained in the regular way or by completing fifteen semester hours in Political Science together with three semester hours in History 3, 7, or 8.

SOCIOLOGY

1. *Ethnology.* B

Professor WELLS. First Semester, 3 hrs.

This course should be taken by those who expect to take the following courses in this department. It is a study of the place of man in Nature and of the races and varieties of mankind. Recitations and lectures.

2. *Historical Sociology.* B

Professor WELLS. Second Semester, 3 hrs.

This course is devoted to the study of the development of the fundamental social institutions as expressions of folk habits and customs. Recitations and lectures.

Course 2 is open only to those who have taken Course 1.

3. *Biological Sociology (Vital Phenomena).* B

Professor WELLS. First Semester, 3 hrs

This course treats of man's adjustment to his natural environment and of the way in which it determines his mode of life and his institutions, with particular reference to climatic conditions and problems of tropical colonization. It is the Biology of population, involving a study of birth rates, death rates, and kindred phenomena by the Statistical method. Lecture course.

4. *Anthropological Sociology (Social Phenomena).* C

Professor WELLS. Second Semester, 3 hrs.

Its subject is the social life of to-day, particularly in America. It investigates the statistics of social conditions and social groups. This involves a study of Social Classes, Crime, Pauperism, and Social Reform.

6. *Psychological Sociology (Social Forces).* C

Professor WELLS. Second Semester, 3 hrs.

This approaches social facts from the mental side, considering them as deposits of the human mind or products of human effort. It attempts to explain human society from within by the method of scientific interpretation. Open only to those who have taken Courses 1 and

2, or 3 and 4. Philosophy 1 is advised but not required for this course. Lecture course.

A Minor in Sociology is obtained by taking Courses 1 and 2 and two other courses.
A Major is obtained by combining all five courses in Sociology with either Biology 1 and 1 a, or Philosophy 1 or 2, or History 1 and 2, or Economics 1 and 2.

PHILOSOPHY

1. *Psychology.* A

Professor HORNE and Mr. CHANDLER. First Semester, 3 hrs.

An elementary course. Outlines of the science. Description and explanation of the phenomena of the mental life. Lectures, quizzes, reports, and readings.

2. *Logic.* A

Professor HORNE. Second Semester, 3 hrs.

An introductory course. A study of the outlines of deductive and inductive reasoning with especial reference to fallacies, argumentation, the nature of thought, and the logic of certainty and probability. Recitations, reports, and readings. (Creighton's *Introductory Logic.*)

Philosophy 1 and 2 and the other A courses in Philosophy are open to Sophomores after approval by the instructor, and to Juniors and Seniors. Course 2 does not presuppose Course 1. Students of Logic will find English 9 of service to them.

3. *Advanced Logic.* B

Professor HORNE. First Semester, 3 hrs.

The Science of Thought. This course considers not the conditions under which valid thinking is possible, but the nature of thinking itself. It is the purpose of the courses in Logic to consider the place of thought in reality. Recitations, readings, reports, and a thesis. Course 3 presupposes either Course 1 or 2. (Everett's *Science of Thought.*)

Not offered in 1908–1909.

4. *Advanced Psychology.* B

Professor HORNE. Second Semester, 3 hrs.

This course is a natural continuation of Philosophy 1, which it presupposes. Special attention will be paid to abnormal psychic phe-

nomena. It is the purpose of the courses in Psychology to acquaint college men with the essential elements of their own conscious life and with the general constituents of human nature. Recitations, readings, reports, and a thesis.

Students of Psychology will find the following courses in other departments of interest and value to them, viz., Biology 1, 1a, 2, 10, and Sociology 6.

5. *History of Philosophy.* A or B

Professor CAMPBELL. First Semester, 2 hrs.

Ancient Period. A study of the progressive steps in constructive thought from the earliest times to the birth of accredited Science and Philosophy at the close of the Socratic era. The History of Schools of thinking is treated in its concrete relation to national events, and involves an outline of the Philosophy of History. Lectures, recitations, and readings.

6. *Modern Philosophy.* B or A

Professor CAMPBELL. Second Semester, 2 hrs.

History of the national developments of philosophic thinking which have followed the Reformation, in Germany, Italy, France, Great Britain, and America; rise of great personal representatives of Modern Thought; also tendencies and Schools of Philosophy. This course may be taken without Course 5.

7. *Historical and Theoretical Ethics.* A or B

Professor CAMPBELL. First Semester, 2 hrs.

It is the purpose of Ethics to establish the common foundation of the Moral, Social, and Political Sciences. The Historical exhibits the progressive theories until the founding of Modern Ethics. The Theoretical is an exposition of the principles of man's moral nature, and of the laws of its development in terms of environing conditions. Lectures, discussions, and readings.

The importance of a correct knowledge of the Moral Life will commend itself. It is the intention so to arrange the schedule of studies that every undergraduate may have opportunity to elect at least one two-hour course in Ethics. Course 8 may be taken before Course 7.

8. *Practical and Systematic Ethics.* B or A

Professor CAMPBELL. Second Semester, 2 hrs.

Man as an ethical unit in practical affairs. A study of his mental equipment. Conscience and Will as related to responsibility. Classification of duties as Personal, Social, Civil, and Theistic. Specific facts of Personal Ethics. A study of Justice in the social medium. The law of veracity in business life. Morality in its relation to custom, fine art, and religion. Lectures, recitations, and readings.

9. *Civil Ethics.* C

Professor CAMPBELL. First Semester, 2 hrs.

A study of the moral relations of man as a civil unit. Recognition of Rights, Penalties, and Laws. Duties under free government. Problems of Suffrage and of Temperance Legislation. Rights of Labor and of Capital. Relation of ethical science to Civil Law and courts of equity and to civil processes generally. Lectures, recitations, readings, and thesis. This course presupposes Courses 7 and 8.

10. *Early Greek Philosophy.* C

Professor CAMPBELL. Second Semester, 2 hrs.

A study in the original Greek of the teachings (extant) of the Pre-Socratic philosophers. Translations and discussions. (Fairbanks's *First Philosophers of Greece.*)

Open only to Seniors who are acquainted with the Greek language. A study of the later Greek philosophy is given under Greek 11.

11. *Æsthetics.* B

Professor CAMPBELL. First Semester, 2 hrs.

Philosophy of the Fine Arts. Historical development of Architecture, Sculpture, Painting, Music, and Poetry. Recitations and lectures with photographic and stereopticon illustrations. Students choose special topics for theses to be presented to the class. (Raymond, *Genesis of Art-Form.*)

For courses in Greek and Roman Architecture, Sculpture, and Painting, see Archæology 1–6 and Fine Arts 1–4. For a course in Literary Art, see English 19; in Musical Theory, Music 3 and 4.

12. *Philosophy of Religion.* C

Professor CAMPBELL. Second Semester, 2 hrs.

The unitary in ethnic religions; the Greek Pantheon as a system of Ethics; validation of theistic ideas: rational development of the spiritual life; sacred books; claims and dominant ideas of Christianity. Among the references are: Tiele's *Science of Religion;* Campbell's *Religion in Greek Literature;* Kellogg's *Genesis of Religion;* Harris's *Philosophical Basis of Theism;* Caird's *Philosophy of Religion;* Caldecott's *Philosophy of Religion;* Fairbairn's *Philosophy of Religion and of History;* Wright's *Scientific Aspects of Christian Evidences,* — the last used as a text-book. This course is intended quite as much for all who are seeking a rational basis for religious opinions as for those who have in mind the ministerial work. Recitations, lectures, synopses of critical readings, discussions.

13. *Introduction to Philosophy.* C

Professor HORNE. First Semester, 3 hrs.

A general survey of the field of Philosophy, with especial reference to the definition of its problem, its spirit, its method, and its relation to the various sciences; the doctrine of nature and of mind, of knowledge, and of being; the reconciliation of mechanism and teleology. It is the purpose of this course to introduce men in a non-technical way to the general problems of Philosophy, and to suggest their possible solutions. Recitations, readings, reports, and a thesis. (Paulsen's *Introduction to Philosophy.*)

Open only to Seniors. Presupposes any two courses in Philosophy.

14. *Metaphysics.* C

Professor HORNE. Second Semester, 3 hrs.

The fundamental problems of Theoretical Philosophy. The conception of Reality, the Idea of God, the relations between the individual self and the world. It is the purpose of this course to enable men to frame for themselves a personal philosophy of life. Recitations, readings, and a thesis. (Royce, *The World and the Individual.*)

Open only to Seniors. Presupposes any three courses in Philosophy.
Not offered in 1908–1909.

15 and 16. *Philosophy of History.*

Professor CAMPBELL. First and Second Semesters.

Origin and development of Civilization. Critical historical studies accompanied by lectures and recitations. A good knowledge of the German language is requisite. Ancient period, first Semester; Modern period, second Semester.

17. *Philosophy of Ethics.*

Professor CAMPBELL. First Semester.

Study and discussion of Kant's *Kritik der praktischen Vernunft*, or of Green's *Prolegomena.*

18. *Philosophy of the State.*

Professor CAMPBELL. Second Semester.

Man as a philosopher, developing his political environments. Outlines of historical theories. Monarchy and its differentiations. Democracy and its limitations. Fundamental relations of Executive, Legislative, and Judicial factors. Powers and functions of the modern State.

19 and 20. *Systematic Philosophy.*

Professors CAMPBELL and HORNE. First and Second Semesters.

Independent investigation at the sources of some important philosophical work, ancient or modern. Selection may be made from Greek, Latin, German, French, or English texts. It is the aim to develop a competency for exact research according to the methods of recent literary and historical criticism.

Course 15 and the following courses are intended for graduate students, hours and days to be arranged with the instructor. They may, however, be elected by undergraduates who have made them a part of their group in Philosophy, or who have satisfied the instructor as to their competency to pursue them.

MUSIC

1. *Music as an Art.* A

Director MORSE. First Semester, 3 hrs.

A general study of the development of the art of music, designed to prepare one to understand and appreciate musical performances.

No previous musical study is necessary in preparation for this course. Sound, musical sound, notation, rhythm, melody, harmony, their evolution and application in modern music. (Maryott's *Musical Essentials;* Tyndall's *Sound;* Sedley Taylor's *Sound and Music.*)

2. *Music as an Art (continued).* A

Director MORSE. Second Semester, 3 hrs.

Musical forms with analyses. Study of the great composers, their lives, works, characteristics, and their influence upon the development of modern music. An "Angelus" piano-player will furnish abundant means for study and illustration in this course. (Mason and Surette's *The Appreciation of Music.*)

3 and 4. *Harmony.* B

Director MORSE. First and Second Semesters, 3 hrs.

Systematic study of intervals and chords, and their correct and effective use in four-part harmony. Ability to play four-part harmony (like a hymn tune) is necessary for this course. (Emery's *Harmony;* Boise; Richter; Foote-Spalding.)

5 and 6. *The History of Music.* B

Director MORSE. First and Second Semesters, 1 hr.

This course will be illustrated by music of all epochs and also by lantern slides. (Dickinson's *History of Music.*) Lectures and readings.

ARCHÆOLOGY

1. *Roman Life.* (*Latin 5.*) A

Professor BURTON. First Semester, 3 hrs.

This course is intended both for students of Latin and for others who are interested in ancient Rome and in the public and private life of the Romans. There will be lectures on the geography and peoples of Italy; the topography and public buildings of Rome; the private house and its furnishings; the daily life of the Roman citizen, his wife, children, and slaves; education and athletic sports; handicrafts and commerce; the law-courts; the political organization of the state; the army and navy. The lectures will be illustrated by means of

plans, pictures, and lantern slides. A considerable amount of supplementary reading will be required. Knowledge of Latin is not essential. Lecture course.

2. *Greek Life.* A

Professor G. D. LORD. Second Semester, 3 hrs.

The Life of the Ancient Greeks, particularly the Athenians, from the evidence of the Monuments and of the Literature. By manual, assigned readings, and lectures. Knowledge of Greek is not required.

3. *Greek Art.* A or B

Professor G. D. LORD. First Semester, 3 hrs.

This course, beginning with an introduction on the Arts of Egypt, Assyria, and Phœnicia in their relation to Greek Art, presents the History of Greek Art in its most significant products of Architecture, Sculpture, and Painted Vases. In this course, and in those that follow, constant use is made of the Sullivan collection of photographs purchased by contributions from the alumni. Text-book supplemented by discussions, and lectures illustrated by lantern slides.

Open to Seniors and Juniors, and to Sophomores approved by the instructor.

4. *Roman Art.* A or B

Professor G. D. LORD. Second Semester, 3 hrs.

Architecture, Portrait Sculpture, and Historical Reliefs. Decoration in fresco and mosaic. Open to Seniors and Juniors, and to Sophomores approved by the instructor.

Courses 3 and 4 count as B courses for those who have passed in Courses 1 and 2.

5. *Topography and Monuments of Greece.* B

Professor G. D. LORD. First Semester, 3 hrs.

This course informs the student of the sources and the more important characteristics of the materials for Greek Archæology. Selections from Pausanias will be read, with critical commentary, covering a part of his description of the topography and monuments

of Athens, Eleusis, Olympia, and Delphi. Open to those who have passed Greek 5 and 6.

Courses 5 and 5 a are offered in alternate years.

5 a. *Introduction to Greek Epigraphy.* C

Professor G. D. LORD. First Semester, 3 hrs.

In this course the development and the more important characteristics of Attic Inscriptions will be studied by the aid of a carefully selected collection of squeezes. The last half of the course will be devoted to the study of a limited period in Athenian history where the sources are conspicuously Epigraphical.

Open only to those who have passed Greek 5 and 6.

6. *Greek Sculpture.* C

Professor G. D. LORD. Second Semester, 3 hrs.

Sculpture; study by readings and by lectures. Independent studies from casts and photographs are required. Ability to read French and German is very desirable for this course, but will not be required at present.

Open to those who have passed Greek 5 and 6, or Archæology 3.

FINE ARTS

1. *Italian Painting.* A

Professor KEYES. First Semester, 3 hrs.

This course presents a general view of Italian painting from the decline of the Roman Empire through the best period of the Renaissance. The attempt is made to develop the subject logically by means of copious illustration and the discussion of causes as well as results.

Open only to Seniors and Juniors.

2. *Painting in the Netherlands and Germany.* A

Professor KEYES. Second Semester, 3 hrs.

This course presents a general view of painting in Flanders, Holland, and Germany from the fourteenth to the seventeenth cen-

tury. Special emphasis will be given to the consideration of Dürer, Rubens, and Rembrandt.

Open only to those who have taken Course 1.

4. *Principles of Art Criticism.* B

Professor KEYES. Second Semester, 2 hrs.

A consideration of the underlying principles governing the Fine Arts, and an endeavor to make them available for purposes of independent criticism.

Open to Seniors who have passed in Course 1 and after consultation with the instructor.

EDUCATION

History 1 and 2 and Philosophy 1 and 2 are strongly recommended as preparation for the courses in Education.

1. *History of Education. Ancient and Mediæval Periods.* B

Professor HORNE. First Semester, 3 hrs,

This course is designed to give the student an appreciation of the meaning of Education and an acquaintance with the rise and historical solution of its chief problems. The development of educational thought is traced in its relation to the development of civilization. The main facts about the national school systems and the educational reformers are presented, and an endeavor is made to understand the significance of these facts for our present educational problems in the United States.

Recitations, readings, and reports. (Monroe, *Text-Book in the History of Education.*)

Given in alternate years with Education 3.

2. *Introduction to Educational Theory.* B

Professor HORNE. Second Semester, 3 hrs.

The aim of this course is to present such well-accepted principles and to discuss such important problems in the field of education as will be of value to the citizen, parent, and member of school board, as well as to the teacher. The following topics indicate the nature

and scope of the work: The Meaning, Scope, and Aim of Education; Individual and Social Aspects; the Relation of Psychology and Ethics to Educational Theory and Practice; Factors in Education; Elementary and Secondary Schools, their Special Aims and Courses of Study; Educational Values; Correlation of Studies; Flexibility; General Principles of Method; School Hygiene; Moral Training.

Recitations, lectures, discussion, and required readings. (Horne, *The Philosophy of Education.*)

Given in alternate years with Education 4.

3. *History of Education. Modern Period.* B

Professor HORNE. First Semester, 3 hrs.

Given in alternate years with Education 1, which see for a description of the course and the text.

4. *Educational Psychology.* B

Professor HORNE. Second Semester, 3 hrs.

An account of the nature of the psychical processes with which teachers are concerned and the best ways of dealing with them. The psychological basis of methods of teaching. The problem of education as a science. Recitations, readings, and reports. (Horne, *Psychological Principles of Education.*)

Given in alternate years with Education 2.

All courses in Education are open to Juniors and Seniors.
A Minor in Education is obtained by taking all four courses in Education.

REGISTRATION OF DARTMOUTH TEACHERS

A Committee of the Faculty, known as "The Committee for the Registration of Teachers," conducts a registration bureau for graduates engaged in teaching, and assists them in securing positions. For registration blanks and information apply to Prof. H. E. Burton, Hanover, N. H.

TEACHERS' CONFERENCES

A conference of teachers in secondary schools is held at the College every year. The whole time of each conference is given to the discussion of the work in some one department, or group of closely related departments.

Conferences have been held as follows:

May 9–11, 1901 — History.
May 8–10, 1902 — Latin and Greek.
May 14–16, 1903 — English.
May 12–14, 1904 — Mathematics.
May 11–13, 1905 — The Function of the School in Developing Character.
May 3–5, 1906 — Modern Languages.
May 16–18, 1907 — Physics and Chemistry.
May 14–16, 1908 — Problems in the Organization and Administration of Secondary Schools.

The conference in 1909 will be on the Relation of the Secondary School to the College, as expressed in College Entrance Requirements.

OUTLINE OF STUDIES

FRESHMAN YEAR

FIRST SEMESTER

A.B.

PRESCRIBED

	hrs.
Greek 5, or French 5, or German 5	3
Latin 1	3
English 1	3
*Mathematics 1 or 3	3
Physical Education	1
	13

ELECTIVE (choose one)

	hrs.
Greek 1, French 1, German 1	3
	3
	16

B.S.

PRESCRIBED

	hrs.
French 5, or German 5	3
English 1	3
*Mathematics 1 or 3	3
Physical Education	1
	10

ELECTIVE

(Choose one from each group)

		hrs.
Greek 1, Latin 1, French 1, German 1	Group I	3
Graphics 1, Physics 1, Chemistry 3, Biology 1, History 1	Group II	3
		6
		16

SECOND SEMESTER

A.B.

PRESCRIBED

	hrs.
Greek 6, or French 6, or German 6	3
Latin 2	3
English 2	3
*Mathematics 2 or 4	3
Physical Education 2	1
	13

ELECTIVE (choose one)

	hrs.
Greek 2, French 2, German 2	3
	3
	16

B.S.

PRESCRIBED

	hrs.
French 6, or German 6	3
English 2	3
*Mathematics 2 or 4	3
Physical Education 2	1
	10

ELECTIVE

(Choose one from each group)

		hrs.
Greek 2, Latin 2, French 2, German 2	Group I	3
Graphics 2, Physics 2, Chemistry 4, Biology 2, History 2	Group II	3
		6
		16

*Students presenting Mathematics II for admission will take Mathematics 3, unless they prefer to discontinue Mathematics, in which case they may take another study in the elective groups of the B.S. course. Those presenting only Mathematics I will take Mathematics 1.

SOPHOMORE YEAR

Each student must elect 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 3	3	Italian 1	3	Chemistry 5	3
Greek 7	3	German 1	3	Biology 1	3
Greek 17	1	German 3	3	Biology 1a	2
Latin 3	3	German 7	3	Biology 3	3
Latin 5	3	German 9	3	Biology 5	3
Latin 7	1	German 11	3	History 1	3
English 3	3	German 13	3	History 3	3
English 9	3	Mathematics 7	4	Economics 1	3
French 1	3	Mathematics 9	5	Economics 3	3
French 3	3	Graphics 3	3	Philosophy 1	3
French 5	3	Physics 1	3	Music 1	3
French 7	3	Physics 3	3	Music 3	3
French 11	3	Chemistry 3	3	Archæology 1	3
Spanish 1	3				

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 4	3	French 12	3	Chemistry 2	3
Greek 8a	3	Spanish 2	3	Chemistry 4	3
Greek 8b	3	Italian 2	3	Chemistry 6	3
Greek 18	1	Italian 4	2	Biology 2	3
Latin 4	3	German 2	3	Biology 4	3
Latin 6	3	German 4	3	Biology 6	3
Latin 8	1	German 8	3	History 2	3
English 4	3	German 12	3	History 4	3
English 8	1	German 14	3	Economics 2	3
English 10	3	Mathematics 8	4	Economics 4	3
French 2	3	Mathematics 10	5	Philosophy 2	3
French 4	3	Graphics 4	3	Music 2	3
French 6	3	Physics 2	3	Music 4	3
French 8	3	Physics 4	3	Archæology 2	3

JUNIOR YEAR

Each student must elect 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 9	3	German 9	3	Geology 1	3
Greek 11	3	German 11	3	Mineralogy 1	4
Greek 13	1	German 13	3	History 3	3
Latin 9	3	German 15	1	History 7	3
Latin 11	3	German 17	3	History 9	3
Latin 13	3	German 19	3	Economics 1	3
Latin 15	3	German 21	3	Economics 3	3
English 5	3	Linguistics 11	2	Political Science 1	3
English 11	3	Mathematics 11	3	Political Science 7	3
English 13	3	Graphics 5	3	Sociology 1	3
English 15	3	Physics 3	3	Philosophy 1	3
French 7	3	Physics 5	3	Philosophy 3	3
French 9	3	Physics 7	3	Philosophy 5	2
French 11	3	Physics 9	3	Philosophy 7	2
French 13	3	Physics 11	2	Music 1	3
French 15	3	Astronomy 1	3	Music 3	3
French 17	3	Chemistry 3	3	Music 5	1
French 19	3	Chemistry 5	3	Archæology 3	3
Spanish 1	3	Chemistry 7	4	Archæology 5	3
Spanish 3	3	Biology 3	3	Archæology 5a	3
Italian 1	3	Biology 5	3	Fine Arts 1	3
Italian 5	3	Biology 7	3	Education 1	3
German 7	3	Physiology 1	3	Education 3	3

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 10	3	German 14	3	History 4	3
Greek 12	3	German 18	3	History 8	3
Greek 14	1	German 20	3	History 10	3
Latin 10	3	German 22	3	History 12	3
Latin 12	3	Linguistics 12	2	History 14	3
Latin 14	3	Mathematics 12	2	History 16	3
Latin 16	2	Engineering 2	3	Economics 2	3
English 6	3	Physics 4	3	Economics 4	3
English 8	1	Physics 6	3	Political Science 2	3
English 16	3	Physics 8	3	Political Science 8	2
French 8	3	Physics 10	3	Sociology 2	3
French 10	3	Physics 12	2	Philosophy 2	3
French 12	3	Astronomy 2	3	Philosophy 4	3
French 14	3	Astronomy 6	3	Philosophy 6	2
French 16	3	Chemistry 4	3	Philosophy 8	2
French 18	3	Chemistry 6	3	Music 2	3
French 20	3	Chemistry 8	4	Music 4	3
Spanish 2	3	Biology 4	3	Music 6	1
Spanish 4	3	Biology 6	3	Archæology 4	3
Italian 2	3	Biology 10	3	Archæology 6	3
Italian 4	2	Physiology 2	3	Fine Arts 2	3
Italian 6	3	Geology 2	3	Education 2	3
German 8	3	Mineralogy 2	4	Education 4	3
German 12	3				

SENIOR YEAR

Each student must elect 12 to 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 9	3	Linguistics 11	2	Economics 5	3
Greek 11	3	Linguistics 15	2	Economics 7	3
Greek 13	1	Linguistics 17	3	Economics 13	3
Latin 9	3	Linguistics 19	3	Economics 15	3
Latin 11	3	Mathematics 13	3	Statistics A	2
Latin 13	3	Physics 9	3	Accounting A	2
Latin 15	3	Physics 11	2	Political Science 3	4
English 19	3	Physics 13	2	Political Science 5	3
English 21	3	Astronomy 3	3	Political Science 7	3
English 23	1	Astronomy 7	3	Political Science 9	2
English 25	3	Chemistry 11	3	Sociology 3	3
English 27	3	Chemistry 13	3	Philosophy 3	3
French 13	3	Chemistry 15	4	Philosophy 9	2
French 15	3	Chemistry 17	3	Philosophy 11	2
French 17	3	Chemistry 19	4	Philosophy 13	3
French 19	3	Biology 9	3	Archæology 5	3
Spanish 3	3	Biology 13	3	Archæology 5a	3
Italian 5	3	Histology 1	3	Fine Arts 1	3
German 17	3	Anatomy 1	3	Education 1	3
German 19	3	Physiology 1	3	Education 3	3
German 21	3	Physiology 3	3	Tuck School	18
Linguistics 1	3	Geology 3	3	Thayer School	18
Linguistics 3	2	Geology 5	3	Medical School	18
Linguistics 5	3	History 7	3		
Linguistics 7	2	History 9	3		

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 10	3	Mathematics 14	2	History 16	3
Greek 12	3	Mathematics 16	3	Economics 6	3
Greek 14	1	Physics 10	3	Economics 8	3
Latin 10	3	Physics 12	2	Economics 10	3
Latin 12	3	Astronomy 4	3	Economics 12	3
Latin 14	3	Astronomy 8	3	Economics 14	2
Latin 16	2	Chemistry 10	2	Economics 16	3
English 22	3	Chemistry 12	3	Political Science 4	3
English 24	1	Chemistry 14	3	Political Science 6	3
English 26	3	Chemistry 16	4	Political Science 8	3
French 14	3	Chemistry 18	3	Political Science 10	3
French 16	3	Chemistry 20	4	Political Science 12	2
French 18	3	Biology 10	3	Political Science 14	2
French 20	3	Biology 12	3	Sociology 4	3
Spanish 4	3	Biology 14	3	Sociology 6	3
Italian 6	3	Biology 16	2	Philosophy 4	3
German 18	3	Bacteriology 2	3	Philosophy 10	2
German 20	3	Anatomy 2	3	Philosophy 12	2
German 22	3	Physiology 2	3	Philosophy 14	3
Linguistics 4	2	Physiology 4	3	Archæology 4	3
Linguistics 8	2	Geology 4	3	Archæology 6	3
Linguistics 10	3	Geology 8	3	Fine Arts 2	3
Linguistics 12	2	History 8	3	Fine Arts 4	2
Linguistics 14	3	History 10	3	Education 2	3
Linguistics 16	2	History 12	3	Education 4	3
Linguistics 20	3	History 14	3		

GENERAL REGULATIONS

I. REGISTRATION

All undergraduate students are required to register before the opening of the year, on Wednesday from 4 to 5 P.M., or on Thursday from 8 to 9 A.M. Any undergraduate failing to register at the appointed time will be charged with overcuts until the time of his registration at the Dean's office, unless previously excused.

All students entering College (this rule includes all students entering upper classes) must register with the Dean during the three days previous to the opening of the year, and must receive matriculation papers from the President before entering upon the work of the College.

II. ATTENDANCE AT EXERCISES

Attendance is required of all undergraduates at recitations and lectures continuously through each semester according to the time-table of the studies pursued. Attendance is required also at College prayers, on week days at 7.50 A.M., and on Sundays at 5.30 P.M.

A student may absent himself from seven chapel services in each semester; and from each course of instruction as many times as the course is scheduled exercises per week, without affecting his standing, provided, however, that he meets all the requirements of the instructor.

These allowed absences cannot be taken *immediately preceding* or *following* a recess or vacation.

Each unexcused absence from recitation in excess of those allowed above shall entail a deduction of *four* points from the mark in the course in which the absence occurred; and for each absence in excess of the allowed number from chapel, a deduction of *one* point shall be made from the student's general average; when his general average is brought below 50 by excess of chapel absences he shall be required to take additional hours of recitation work, the amount to be determined by the Committee of Administration.

The Medical Director has sole charge of all excuses for absence occasioned by sickness, but under the Physicians' certificate system no excuse will be allowed for the first day's absences for sickness.

The Committee on Athletics has sole charge of all excuses for absence granted to the various Athletic teams.

The Committee on non-athletic Organizations has sole charge of all excuses for absence granted to the various organizations under its control.

The Dean has power to grant excuse for absence for all other causes. All applications to the Dean for excuse for absence shall be made in writing, with full statement of reasons, and shall be presented in person. A blank form will be furnished at the office. They must be in advance, if possible. If, by reason of impossibility, they are not made in advance, they must be made within three days after the expiration of the period of absence, and must contain a full statement of the reason for the delay in presentation.

Absence from any exercise shall not release the student from the responsibility for the work required of other students, or which would have been required of him if he had been present.

Students absent for any reason more than five exercises per semester hour from a laboratory or lecture course, or more than ten exercises per semester hour from a recitation course, shall receive no credit for such course.

III. SCHOLARSHIP

The general average of the marks of each student for the several departments shall be ascertained every semester, each course having weight in proportion to the number of exercises assigned to it, and the relative importance of recitation and examination (in each course) depending upon the nature of the course and the method of instruction.

This general average shall be the student's scholarship mark for the semester, subject, however, to a deduction for excess of absences; the number of hours upon which the standing of a student shall be computed shall not be less than the minimum number of hours required for that semester.

When a student has met all the requirements of a course, a single numerical mark shall be recorded, indicating that he has *passed* in the course.

A statement of the numerical standing in each subject and of the general average together with a record of absences shall be sent twice annually to each student and to his parent or guardian.

Students whose standing for the whole College course averages 85, or more, receive Commencement Appointments.

Freshmen whose attendance is unsatisfactory or who show by their current work that they are unfitted to continue in College shall be dismissed from College at the close of the first semester.

A student reported as *failed* in any course of Freshman year or in any course in a group of electives essential to a degree must repeat that course with the next class, except that a failure in the first semester of Senior year may be made up by an equivalent course in the second semester, assigned by the Committee of Administration.

IV. EXAMINATIONS

The regular examinations in each course of study are held in the middle and at the close of the year.

Students are required to be present promptly at the hour named for the examination, and no one is admitted after seven minutes have elapsed.

Only *one* examination will be allowed a student in any subject; an examination may be deferred on account of severe sickness, or for some equal necessity, but this deferment must be secured *in advance*

The Dean alone has power to defer an examination.

Any student proved to have been dishonest in examination shall be deemed to have forfeited his right to be a member of the College, and shall be permanently separated therefrom.

V. ENROLLMENT IN CLASSES

A student shall be enrolled in the Freshman class until he has completed at least twenty-two semester hours of work, and has removed all entrance conditions in subjects due from him in Freshman year; he shall then be enrolled in the Sophomore class until he has completed fifty-four semester hours, including all requirements of Freshman year and has removed all entrance conditions due from him in Sophomore year; then in the Junior class until he has completed at least eighty-six semester hours; then in the Senior class until he has completed one hundred and twenty-two semester hours,

which is the requirement for a degree. A Freshman who has failed to be promoted with his class must repeat all courses in which he has failed, and may take additional courses with the higher class to fill out the number of hours required; such students must arrange their schedules in consultation with the Dean.

VI. COLLEGE ORGANIZATIONS

No Athletic contest shall take place before 4 P. M., except on Saturday afternoon and holidays, unless by special permission of the Committee on Athletics.

The names of all candidates for the various athletic teams must be furnished to the Committee on Athletics and to the Dean, to be posted on the bulletin board not later than October 1st, December 1st, and April 1st for the autumn, winter, and spring contests, respectively.

No special student, or one who is objected to by the Committee on Administration, or who fails to meet the requirements of the Faculty as specified below, shall be allowed to be a member of any organization representing the College.

No student who is on probation shall be a candidate for, or a member, of any organization representing the College.

Freshmen who have been admitted to College with entrance conditions amounting to three or more points, are not allowed to be members of any organization representing the College, until such condition shall have been removed.

For complete regulations, see "Regulations of the Faculty," published in September of each year.

RELIGIOUS SERVICES

Prayers are conducted by the President each week-day morning in Rollins Chapel, and a vesper service is held on Sunday. All undergraduate students are required to be present.

While the service on Sunday in Rollins Chapel is the recognized service for all students, insuring unity in the worship of the College, provision is made for the attendance of students at the churches of the town. The hour of Chapel Service has been fixed in the latter part of the day to enable students to attend a morning service in the churches of their respective faiths. The churches in Hanover are the old College Church (Congregational), St. Thomas Church (Episcopalian), and St. Denis Church (Roman Catholic).

At the College Church the service of a Board of Preachers has given place to the constant service of a Pastor, the Reverend Frank Latimer Janeway, who is assisted once or twice a month by preachers from other pulpits.

Bartlett Hall offers ample and attractive rooms for the use of the Dartmouth Christian Association. The Association is in charge the present year of Mr. A. Karl Skinner as Secretary, a graduate of 1903, to whom all communications may be addressed in regard to the religious work of the College, or the religious life of the students.

The Brotherhood of St. Andrew maintains an organization among the students connected with the St. Thomas Church.

The Dartmouth Catholic Club is an organization of the students connected with the St. Denis Church.

EQUIPMENT

WEBSTER HALL

Webster Hall, erected in 1907 at a cost of nearly $150,000, is a colonial auditorium with a seating capacity of 1600 and is devoted to the academic uses of the Alumni and students for Commencement exercises, lectures, concerts, and dramatics. The burning of Dartmouth Hall in 1904 aroused the Alumni to a realizing sense of the need of a Memorial to preserve the traditions which had gathered about that building; the loyalty of the graduates and undergraduates has found a fitting expression in this artistic and impressive Hall with its appropriate furnishings; the portraits of past Presidents, Professors, distinguished Alumni, and benefactors of the College are hung upon its walls.

The purposes to which the Hall is devoted are best expressed in the words used at its formal opening, October 18, "To preserve the honorable and inspiring traditions of the College, to bring our illustrious dead into daily fellowship with the living, to quicken within us the sense of a common inheritance and of a common duty, to enlarge our knowledge of men and of the world through the spoken word of scholars, discoverers, patriots, and benefactors of their kind, to refine our manners and to stimulate our taste through access to art, to give to us the full advantage of quick and ready contact of one with another, of each with all, and of all with those who represent the interests, the intellectual wealth, and the moral necessities of the world."

THE LIBRARY

In its several collections, the College Library represents the accumulations of a century and a quarter. It originated in valuable gifts of books to the first President from English and Scotch societies for promoting religious knowledge; also, from the Rev. John Erskine, Mr. William Dickinson, and others. Similar benefactions have followed, among the more important of which are the Johnson, Phillips,

Shattuck, Shurtleff, Parker, Smith, Appleton, Bond, Grimes, and Chamberlain donations.

For many years separate libraries were sustained and managed by the public literary societies of the students, known as the Social Friends and the United Fraternity. The Philotechnic Society, organized at a later date among the students of the Chandler School, also made important additions to these collections.

In 1874 the different libraries were consolidated, and put under the control of the College, but the principle of voluntary contribution, by which the collections were so largely gathered, is still maintained, and the annual sum of six dollars is collected from each student, for convenience, with the tuition. According to the agreement through which this annual assessment is made, the selection of books to the value of several hundred dollars yearly is devoted to works of general and popular interest.

The main collection, numbering about 100,000 volumes and 20,000 pamphlets, with a large accumulation of newspapers and manuscripts, is in Wilson Hall, a commodious and convenient fire-proof building, constructed after approved plans of library architecture. The building is heated by steam, and, including the stack-room, lighted by electricity. The books are arranged according to the "expansive system," so modified as to correspond as nearly as possible to the departments of instruction in the College. There is a card catalogue of authors and titles.

The general and departmental reference library, which consists of books reserved for general reference and collateral reading, occupies two rooms on the upper floor, and is open throughout the day and evening. This department contains about 10,000 volumes, which are classified according to subjects, arranged upon open shelves with a few exceptions, and may be loaned for the night. This department is under the supervision of the Superintendent of Reference Rooms.

The transfer has been made of the standard books in literature including fiction to a separate room, where there may be free access to the shelves. The object of this transfer is to allow the greatest familiarity on the part of students with books of the greatest literary value. It is the desire of the management of the Library that students

should not only read individual books but that they should know books and authors as making up a library. Books may be taken from the shelves of this room for use in the room, or they can be charged at the counter under the usual rules for the drawing of books. A standard library of the "books of power" by great authors is being installed in this room to be known as the "Kenerson Memorial Standard Library" from the income of a fund of $3000 given by Mrs. Austin H. Kenerson.

In an adjacent room may be found current files and bound volumes of leading periodicals, maps, and equipment for the study of current events.

There are department libraries at the Medical School, the Tuck School, the Observatory, the Thayer School, Bartlett Hall, as well as in the Physical, Chemical, Geological, Botanical, and Zoölogical Laboratories, and in the rooms occupied by the departments of Greek, Latin, and Social Science.

The rooms in Wilson Hall formerly used for offices of college administration are now used for collections on the subject of education for the special benefit of the Faculty.

Books may be drawn for two weeks, excepting certain volumes so indicated, which have been added during the college year, and may be retained but one week. Undergraduates may have four books at a time; resident graduate students, ten; alumni, four. Persons not connected with the College may use the Library upon the payment of four dollars yearly.

The reading and reference rooms are open on week days from 8 A.M. to 10 P.M.; on Sunday the reading room is open from 1.30 to 5.30 P.M.

The Library is open for drawing books from 8 A.M. to 12 M., and from 1 to 6 P.M.

Special attention is given to bibliology, supervision of courses of reading, and personal assistance.

ARCHÆOLOGICAL AND ART COLLECTIONS

In the rebuilding of Dartmouth Hall provision has been made for the Archæological and Art collections, and also for seminary work in the departments of Archæology and Fine Arts.

A working collection of casts and photographs for Greek and Roman Archæology is in Room S, with recitation and seminar rooms connected.

The College has received the gift of $5000 from Henry Lynn Moore, of Minneapolis, Class of 1877, as a memorial to his son, Guernsey Centre Moore, who died in 1901 in the midst of his college course: the income from this fund is to be used for the "purchase of objects of Artistic merit and value."

Courses in the history of Modern Art have been introduced and will be further developed. The equipment for these courses consists of over 2000 photographs, illustrative of Italian, German, and Netherlands painting; a growing collection of lantern slides illustrative of the history of architecture and of painting; and a seminar library sufficient to the immediate requirements of the courses offered. The Fine Arts seminar room in Dartmouth Hall is arranged for the advantageous exhibition of photographs and similar material, while special provision is made in Room A for lantern lectures in Archæology and Fine Arts.

BUTTERFIELD MUSEUM

By the will of the late Ralph Butterfield, M.D., of Kansas City, of the Class of 1839, the College was made the residuary legatee of his estate, in a sum estimated at one hundred and sixty thousand dollars, "for the purpose of founding and forever maintaining a chair and professorship for the purpose of lectures, recitations, and general instruction in paleontology, archæology, ethnology, and other kindred subjects; and for the erection of a building to cost not less than thirty thousand dollars, for the purpose of keeping, preserving, and exhibiting specimens illustrating the aforesaid branches. It is to be optional with the Trustees either to establish a professorship or a series of lectures at stated periods, on the subjects mentioned."

In accordance with the expressed wish of the donor, the Butterfield Museum, a granite and Roman brick structure, one hundred and forty-five by fifty-five feet in dimension, of three stories and a basement,

has been erected, and is now occupied by the various departments indicated in the above bequest. Special facilities are offered for instruction in Geology and Mineralogy, in Zoölogy and Botany, and in Archæology and Sociology.

The collections in Geology and Biology are arranged in the Butterfield Museum. Upon the upper floor there are the Frederick Hall cabinet of minerals; the Clinton H. Moore Museum of the ores and minerals of the Rocky Mountain region; the fossil footmarks of the Connecticut valley; a systematic collection in Conchology, and numerous topographical maps and models. The principal part of the second or main floor is occupied by the General Museum of Geology and Paleontology; a special collection of the rocks of New Hampshire and Vermont, gathered according to the plans of the State Geological Survey; lecture and departmental library rooms for Geology, Mineralogy, and Sociology, and offices for the curator and instructors.

A valuable Ethnological collection occupies a room at the east end on the second floor, and the unsurpassed specimens of Assyrian Sculpture are arranged along the walls of the adjoining hall.

The main Biological Laboratory is a large room eighty-four by thirty feet, on the north side of the first floor. It is used for the elementary biology courses. At the west end of the first floor is the laboratory for the embryology course and for the advanced workers. At the east end is a Biological library, and also a Botanical Laboratory. Here also are located the Henry Fairbanks collection of birds and the very complete and valuable collection of American birds' eggs presented to the College by Curtis Plummer of the Class of 1907.

In the basement there is a large room fitted for the work in mammalian anatomy and in the comparative anatomy of vertebrates. Adjoining this laboratory is a thoroughly equipped macerating-room. On the south side cases have been constructed to contain a large Herbarium of both phenogamous and cryptogamous plants, including those bequeathed to the College by the late Professor H. C. Jesup.

In addition to the above-named rooms are five private rooms for instructors, a chemical room, and two storerooms. All the laboratories are well equipped with the apparatus necessary for practical biological work.

PHYSICAL LABORATORY

The Wilder Laboratory, the gift of the late Mr. Charles T. Wilder, of Wellesley, Mass., has been occupied since its completion in the

summer of 1899 by the department of Physics. The building has a frontage of one hundred and seven feet, and a depth of fifty-six feet, and a rear projection of fifty-five by thirty-five feet.

The laboratories, lecture, and recitation rooms occupy three stories and a basement. The basement contains a well-equipped workshop and a dynamo room, magnetic and electrical laboratories, a storage-battery room, and a laboratory for constant-temperature experiments. A large lecture room (seating 200 persons), arranged for lantern projection, and equipped with many conveniences for the purpose of general lectures in physics, is on the first floor. The floor is further divided into offices for the members of the department, two recitation rooms, an electrical laboratory, and an apparatus room. The general laboratory provided for students in the first course in practical physics occupies a section of the second and third floors. The remainder of these floors is given up to the departmental libraries in physics and astronomy, two apparatus rooms, a chemical kitchen, two suites of rooms for assistants in the department, an unpacking room, and eleven laboratories planned with reference to special work in optics, spectrometry, photometry, photography, acoustics, electric waves, and the heat spectrum.

The building is heated by steam (both direct and indirect radiation) and lighted by electricity. It is supplied, throughout, with water, illuminating gas, and air under pressure; and a part of the building is provided with connections for oxygen and hydrogen gases. The laboratories and lecture rooms are connected by separate circuits with a large switchboard in the basement, so that the electrical power of the generators and storage battery is accessible to all parts of the building.

At present the laboratory is supplied with a 220 volt direct current power circuit, an alternating circuit and transformer, a direct current 110 volt 3 kilowatt generator, a 1000 volt storage battery of small capacity, a chloride accumulator of 60 volts.

Each room is further provided with a separate signal circuit connecting it with a telephone switchboard on the second floor so that time signals may be sent, and other electric communication is easily possible between different parts of the building.

The equipment of the department with instruments and apparatus is being carried forward by the income from funds left the department by Mr. Wilder. The present equipment is adequate for the needs of the lectures in general physics, the course in practical physics and for the advanced courses which are offered.

The nearness of the physical laboratory to the astronomical observatory affords to either department the resources of the other.

OBSERVATORY

The Shattuck Astronomical and Meteorological Observatory is used for the purposes of instruction. It is provided with a telescope by Clark, having an aperture of 9.4 inches, and a focal length of 12 feet, a spectroscope, a four-inch meridian circle, a three-inch transit and zenith telescope by Saegmuller, sextants, clocks, chronograph, and level-trier.

CHEMICAL LABORATORY

The chemical Laboratories are on the first and second floors of Culver Hall. The first floor is occupied by the lecture room, storerooms, and the laboratory for elementary chemistry and qualitative analysis. This floor has recently been entirely reconstructed, giving a large and convenient laboratory, forty feet by sixty feet, containing eighty-four tables, each with double lockers, giving also the accessory store and reagent rooms, an instructors' office, and an entirely new lecture room. The whole is equipped with the most modern furniture and appliances.

The large northeast room on the second floor is a well-equipped quantitative laboratory, and adjoining rooms are used for balances and library. The large southeast room has recently been fitted up to meet the modern requirements of an organic laboratory, including complete equipment for organic analysis.

In all the courses chemistry is taught by laboratory work, enforced by informal lectures, demonstrations, and short recitations.

CHANDLER HALL

Through the bequest of the late Frank Willis Daniels, of the Class of 1868, Chandler Hall, recently known as Moor Hall, has been purchased, reconstructed, and enlarged, and fitted for the special uses of the departments of Mathematics and Graphics. The first floor furnishes a large lecture room, accommodating over two hundred persons, and rooms for the elementary courses in engineering; the second floor provides four well-arranged rooms for recitation work in mathematics, with private offices for the instructors; the third floor furnishes rooms for recitations, and two large rooms for mechanical drawing, with lighting from above.

The basement is devoted to testing and experimental work in the department of Engineering.

GYMNASIUM AND ATHLETIC FIELD

The Gymnasium is open daily for the use of the students, and during the winter season a regular exercise is required of all members of the Freshman class, and voluntary divisions are formed among members of the other classes. The aim is to reach the large body of students who do not enter into athletic contests, rather than to train athletes.

Through the generous contributions of many of the alumni, an admirable athletic field, with modern improvements, has been laid out near the College buildings. It is provided with all the necessary facilities for base-ball, foot-ball, track athletics, and tennis; including a grand-stand seating six hundred spectators and containing dressing rooms and shower-baths for the use of the students.

All candidates for the Athletic Teams must be examined by the Professor of Physical Culture before they can be accepted as members of a team, and each team is under medical supervision during the period in which it is engaged in sports.

The Professor of Physical Culture who is also Director of the Gymnasium takes the measurement of all students entering College, and conducts the Gymnastic exercises for the Freshman Class during the winter months. The Gymnasium and Athletic Field are in his charge.

The general supervision of athletics in the College is committed to an Athletic Council, consisting of three non-resident alumni, three members of the Faculty, and three undergraduates.

Students are admitted to golf and tennis privileges of the Hanover Country Club at moderate rates by the month or season.

WATER SUPPLY

A system of waterworks, established in 1893 at an expense of $65,000, furnishes, in connection with the aqueduct before in use, an ample supply of water for all purposes. In 1903 the whole area of 1200 acres included within the water-shed was purchased to insure the purity of the water supply. The precinct is supplied with a thorough system of sewers.

HEATING AND LIGHTING PLANT

In 1898 the College adopted the method of heating its buildings from a central station, and a plant has been constructed on the most approved plan at a cost of $80,000; thirty-eight of its buildings, dormitories, and recitation halls are heated in this way, insuring a nearly equable temperature.

In 1905 an electrical plant was added for lighting all the buildings of the College through its own service, and also for power when motors are needed.

HOSPITAL

In case of illness, the Mary Hitchcock Memorial Hospital, constructed upon the latest modern plans, and widely known, since its opening in 1893, as one of the best cottage hospitals in the country, furnishes the students such care and comfort as is seldom found outside of the larger cities. Through the kindness of the late William E. Barrett, of Boston, Mass., of the Class of 1880, provision has been made for the care of students, who are unable to meet the Hospital expenses.

The Hospital is under the management of physicians and surgeons who are connected with the Dartmouth Medical School, and students who enter the Hospital are in charge of members of the Hospital Staff. In the case of students whose parents would prefer to have them treated exclusively by the family physician, the College has made arrangements through which suitable rooms can be secured where the family friends or physician can be in attendance.

All the College buildings are under the direct care and inspection of Dr. Howard Nelson Kingsford, the Medical Director, and every case of illness among the students reported to him receives immediate attention.

ISOLATION HOSPITAL

An Isolation Hospital of twelve beds has recently been furnished and equipped by the College with all the necessities and conveniences for the care of infectious and contagious diseases. This is for the use of the students only, and is entirely under the control of the Medical Director, in whose hands it adds materially to the efficiency with which the health of the student body may be controlled.

COLLEGE SANITATION

All College buildings are under a thorough system of inspection conducted by Dr. H. N. Kingsford, the Medical Director, with a view to the prevention of infectious diseases. Cultures are taken through a corps of medical students at frequent times from all recitation rooms and dormitories. The sources of milk supply for the Commons and the dining clubs are inspected from time to time. Apart from the College buildings, houses in the village where students room are under the inspection of the Medical Director.

THE COLLEGE INN

The Trustees have entirely reconstructed and refurnished the College Inn, known as The Hanover Inn, for the entertainment of alumni, and friends of the students. The Inn is under the management of Mr. Arthur P. Fairfield, of the Class of 1900. Circulars giving all information in regard to location of rooms, prices, etc., can be obtained from him. The Inn is open during the entire year.

RAILROAD CONNECTIONS

The railroad station is known as Norwich and Hanover, on the Passumpsic Division of the Boston and Maine Railroad. White River Junction, four miles south of Hanover, is the centre of four lines of railroads: the Concord Division (Boston and Maine system), making connection with Concord, Manchester, Nashua, Lowell, and Boston (four hours and forty minutes to Boston); the Central Vermont Railroad and the Connecticut River Division (B. and M. R. R.), making connection with Springfield, Hartford, New Haven, and New York (eight hours to New York); and also connecting at Greenfield (B. and M. R. R.) and Springfield (Boston and Albany R. R.) for the West; the Central Vermont Railroad, making connection with Montpelier, Burlington, and the West (thirty hours to Chicago); the Passumpsic Division (B. and M. R. R.), making connection with Wells River, St. Johnsbury, Montreal, and Quebec (eight hours to Montreal).

COLLEGE HALL WITH COMMONS

With a view to the proper development of the social life of the College, the Trustees have erected College Hall, situated on the west side of the Campus, with a frontage of eighty feet on Main Street and of one hundred and twenty feet on Wheelock Street. The building also carries an extension for a dining-hall fifty feet by eighty-five feet, two stories in height, and finished in Old English Oak, capable of providing for five hundred students at meals. The dining-hall when used for other purposes will seat a thousand.

The lower floor of College Hall is divided into parlors, reading rooms, and club rooms, accommodating the various College organizations. Several of these rooms are accessible from the general dining-hall, and may be used by the alumni at Commencement, or at other times, for class suppers.

The second and third floors are arranged in suites of rooms or in single rooms for the ordinary use of students, and for the use of the alumni at Commencement. For this latter use they are supplied with necessary articles of furniture. A few rooms on the second floor are reserved for the alumni who may wish to visit Hanover at any time while the College is in session.

In the basement, which was planned for such uses, are a large billiard room, grill room, and the various working rooms connected with the dining-hall.

The Dining-Hall Association, open to the Faculty and to all students, is a co-operative body governed by a President and Board of Directors, elected by the Association. Board is furnished at cost under a system of *à la carte* service. The bill of fare offers a wide range of choice in regard to the variety as well as the cost of board. To insure against loss to the Association, payment in advance or a bond, signed by two responsible parties, is required of each member.

The whole management is under the supervisory control of the Faculty, and the Medical Director is detailed to make frequent inspection of the plant, and also of the water and milk supply.

COLLEGE DORMITORIES

The Dormitory System obtains at Dartmouth partly to secure convenient and comfortable housing of the students and partly to insure the social unity of the College. The dormitories are so arranged that students of varying pecuniary ability are brought together in the same building.

The dormitories are heated by steam, lighted by electricity, and are abundantly supplied with water-closets and bathrooms; all the buildings have full janitor service.

The rooms in College, North Fayerweather, South Fayerweather, Massachusetts, and Wheeler Halls are furnished with single bedsteads and springs and with a chiffonier for each student. All other furnishings, including bedding and mattresses, must be supplied by the occupants. The other dormitories are entirely unfurnished.

Thornton and Wentworth Halls accommodate forty-five students each; having a few single rooms, and twenty suites for two or three.

Reed Hall accommodates about sixty students; having fourteen single rooms, seventeen suites for two, and four suites for three.

Hallgarten Hall accommodates about forty students; having eleven single rooms, fourteen suites for two, and one suite for three.

Bartlett Hall accommodates about ten students; having four suites for two or three.

Elm House accommodates about twenty students: having four single rooms, and eight suites for two.

Sanborn House, erected in 1894, accommodates about fifty students; having six single rooms, twenty-two suites for two, and one suite for three.

Crosby House, erected in 1896, accommodates about forty-five students; having one single room, twenty-one suites for two, and one suite for three. Sixteen of these suites are provided with fireplaces.

Richardson Hall, erected in 1897, accommodates about fifty students; having eight single rooms and twenty-two suites for two. Six-

teen of these suites have fireplaces and six have fireplaces and private bathrooms.

Fayerweather Hall, erected in 1900, accommodates about eighty-five students; having twenty-three single rooms and thirty-one suites for two.

College Hall, erected in 1901, accommodates about forty students; having thirteen single rooms and fourteen suites for two.

Proctor House, rebuilt in 1903, accommodates twelve students; having two single rooms, two suites for two, and two suites for three, each suite having a fireplace.

Hubbard House, renovated in 1904, accommodates about twenty students; having four single rooms, eight suites for two and one suite for three. Two suites have fireplaces.

Wheeler Hall, erected in 1905, accommodates ninety-eight students; having twenty-eight single rooms and thirty-five suites for two. Seven of the single rooms and six of the suites have private toilets; twelve of the suites have fireplaces, and twelve have fireplaces and private toilets.

New Hubbard House, erected in 1906, accommodates forty-eight students; having eight single rooms and twenty suites for two.

Two new dormitories completing Fayerweather Row, known as North and South Fayerweather, were ready for occupancy in September, 1907. These halls accommodate one hundred students; having ten single rooms and forty-five suites for two. Twenty-eight suites have private toilets.

Massachusetts Hall, erected in 1907, accommodates eighty-eight students; having eight single rooms, thirty-four suites for two, and three suits for four. Sixteen of the suites have fireplaces, and each single room and suite has a private toilet.

New Hampshire Hall, erected in 1908, accommodates one hundred and seven students; having nine single rooms, forty-six suites for two, and two suites for three. Thirty of the suites have fireplaces.

ASSIGNMENT OF ROOMS

A permanent list for the assignment of rooms is kept for each class, and the order of names on this list is determined by the dates of application. Students expecting to enter College may at any time

within three years of entering make application to the Registrar to have their names put on the list.

To students already in College, rooms are assigned in March for the following year. Students rooming in the College buildings may retain their rooms for the following year by giving written notice to the Registrar before March 15. The rooms not thus retained are offered to the classes in order of seniority, and assignments will be made according to the lists for assignment of rooms. One student will not be allowed to reserve or engage one half of a double room, but will be required to report a room-mate at the time the assignment is made or relinquish his turn in the assignment.

For students entering College, rooms in each dormitory are reserved which are not offered to the upper classes. Beginning on April 15 of each year, diagrams of these rooms and of other rooms not engaged by men in College will be sent to the members of the incoming class for their choice in order of application. One student may engage one half of a double room, but the College reserves the right to give the other half of the room to any applicant.

Each student renting a room must make a deposit of ten dollars ($10) at the time the assignment is made, and must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire College year. This deposit shall be forfeited in case the student fails to return to College or in case he does not enter; otherwise the deposit shall be credited on his bill for room rent.

RULES FOR OCCUPANCY OF ROOMS

The time for which the rooms are rented begins on the Thursday before the opening of the College year, and ends on the Saturday after Commencement, except that the buildings used for the Alumni must be vacated on the Thursday preceding Commencement. The College reserves the right to close any of its dormitories during the Christmas and Easter recesses.

The right to occupy a College room is given only to the student to whom the room is assigned and to his room-mate. Neither transfers nor exchanges are allowed. For any violation of this rule, each student taking part in the transaction will forfeit his room for the

year, and will not be allowed to room in the College dormitories during the remainder of his course.

Rooms in the College buildings shall not be occupied by students boarding themselves. Students acting as sales-agents shall not use their rooms for sales-rooms or store-rooms.

The occupants of a room are held responsible for any disorder occurring therein, and for any damages done to the room. Any student who misuses his room or creates a disturbance in the dormitories forfeits the privilege of rooming in any College dormitory. The playing of ball, football, hockey, or like games, and the use of fire-arms in College buildings is especially forbidden.

Any student using his room for storing or using of intoxicating liquors or for gambling or any other immorality, shall be subject to College discipline. Students' rooms, both in the dormitories and town, shall be open at all times to the College authorities.

When two students room together, and one of them is for any cause released by the proper authority, the remaining one shall at once notify the Registrar whether he wishes a room-mate assigned or whether he will become responsible for the full rental. When more than two students occupy a suite of rooms, arranged for three or four instead of two students, and one of them leaves College the remaining students shall be held responsible for the full rental.

The occupants of a room shall be charged for all electric lights in the room. If one occupant is released the remaining one shall at once report to the Registrar if he wishes any changes in the number of lights.

Students leaving College at the end of the year, as well as those who are to change from one room to another, or from a College room to a private house or to a fraternity house, must remove all furniture and other property from their rooms on or before the Saturday after Commencement. Furniture not thus removed will be removed by the College authorities and stored at the owner's expense and risk.

PRICES OF COLLEGE ROOMS FOR 1908–1909

In each case the price is for the whole room for the year. For a description of the dormitories see above.

Diagrams giving the location of rooms or suites of rooms, with dimensions, number of occupants allowed, and price, will be sent upon application to the Registrar.

FOR ONE OCCUPANT

$30. Hallgarten, Nos. 18, 30, 31, 32, 33.

$35. Elm, No. 11.

$40. Elm, No. 12; Hubbard, No. 14.

$45. Elm, Nos. 8, 13; Hallgarten, Nos. 1, 2, 13, 24, 28.

$50. Crosby, No. 23; Fayerweather, Nos. 24, 29, 36; Hallgarten, Nos. 3, 4, 5, 6, 7, 8, 27, 29; Hubbard, No. 15; New Hubbard, Nos. 22, 27, 28; Sanborn, Nos. 25, 27; Swett, No. 5; Thornton, No. 3.

$55. College, No. 1; Richardson, No. 22.

$60. College, Nos. 9, 12, 13, 26, 27; New Hubbard, Nos. 23, 26; New Hampshire, No. 51; Richardson, No. 13; Sanborn, Nos. A, 26, 28; Thornton, No. 4; Wheeler, Nos. 51, 63.

$65. College, No. 23; North Fayerweather, No. 7; New Hubbard, Nos. 7, 14, 21; Reed, No. 20; Thornton, No. 5, 7a; Wheeler, Nos. 53, 54, 58, 60, 61.

$70. Fayerweather, Nos. 39, 40; South Fayerweather, No. 6; Hubbard, Nos. 1, 3; New Hampshire, Nos. 4, 11; Proctor, No. 8; Reed, Nos. 4, 6, 8; Sanborn, No. 29; Wheeler, No. 56.

$75. Fayerweather, Nos. 45, 46, 51, 52; North Fayerweather, Nos. 14, 21; South Fayerweather, Nos. 13, 20; New Hampshire, Nos. 18, 26, 33, 41; Reed, Nos. 10, 12, 14; Sanborn, No. 10; Wheeler, Nos. 7, 8, 9, 10, 17, 18, 32, 33, 34, 35, 49, 50.

$80. Fayerweather, Nos. 3, 4, 9, 10, 15, 16, 38; New Hampshire, Nos. 22, 37; Reed, Nos. 3, 5, 7, 9, 11, 13, 15; Wheeler, Nos. 25, 42.

$85. College, Nos. 10, 24; Fayerweather, No. 2.

$90. College, Nos. 11, 25; Fayerweather, Nos. 41, 47, 53.

$100. Fayerweather, Nos. 5, 11, 17; Massachusetts, Nos. 39, 41; Richardson, No. 28.

$110. Richardson, No. 27.

$120. College, Nos. 14, 28; Massachusetts, Nos. 2, 11, 17, 19, 28, 30; Richardson, Nos. 10, 18; Wheeler, Nos. 2, 15, 23, 27, 40, 44.

$130. Richardson, Nos. 9, 19.

FOR TWO OCCUPANTS

$80. Bartlett, No. 4; Hallgarten, Nos. 19, 20, 21, 22.

$90. Fayerweather, Nos. 33, 34; Swett, No. 9.

$100. Bartlett, No. 1; Elm, Nos. 5, 9; Fayerweather, No. 35; Hallgarten, Nos. 9, 10, 11, 12, 14, 15, 16, 17, 23, 25; Swett, No. 6; Thornton, Nos. 12, 20, 22; Wentworth, Nos. 4, 12, 20, 22.

$110. Bartlett, No. 3; Elm, Nos. 4, 10; Hallgarten, No. 26; Reed, Nos. 2, 30, 32; Thornton, Nos. 11, 13, 15, 19, 21, 23, 24; Wentworth, Nos. 3, 5, 7, 11, 13, 15, 19, 21, 23, 24.

$120. Bartlett, No. 2; College, Nos. 8, 22; Elm, Nos. 1, 2, 7; Hubbard, No. 9; New Hubbard, Nos. 24, 25; Proctor, No. 4; Reed, Nos. 22, 24, 29, 31; Sanborn, No. 18; Swett, Nos. 2, 8; Thornton, Nos. 7b, 10, 17, 18; Wentworth, Nos. 1, 2, 9, 10, 17, 18.

$130. Elm, No. 6; Fayerweather, Nos. 1, 7, 13, 19, 20, 21, 23, 25, 26, 28, 30, 31, 37, 43, 49; Hubbard, No. 10; New Hubbard, Nos. 3, 4, 10, 11, 17, 18; New Hampshire, Nos. 45, 46, 56, 57; Reed, Nos. 16, 18, 26, 27, 28, 34, 35, 36; Sanborn, Nos. 2, 17, 19, 21, 23, 24; Swett, Nos. 1, 7; Thornton, Nos. 1, 2 8, 9, 16; Wentworth, Nos. 8, 16.

$140. Fayerweather, Nos. 6, 12, 18, 42, 48, 54; South Fayerweather, Nos. 1, 5; Hubbard, No. 11; Massachusetts, Nos. 35, 45; New Hampshire, Nos. 6, 9, 16, 28, 31, 43, 47, 55; Reed, Nos. 1, 17, 19, 21, 23, 25, 33; Richardson, Nos. 1, 2; Sanborn, Nos. 9, 20, 22; Swett, Nos. 3, 4; Wheeler, Nos. 6, 62.

$150. Crosby, Nos. 17, 22; Fayerweather, Nos. 22, 27, 32; South Fayerweather, No. 3; Hubbard, Nos. 5, 12–13–16; New Hampshire, Nos. 7, 8, 15, 29, 30, 44; Richardson, Nos. 18, 23, 24; Sanborn, Nos. 1, 3, 5, 7, 8, 11, 13, 15, 16; Wheeler, Nos. 19, 31, 36, 48, 52, 59.

$160. College, No. 7; Crosby, No. 16; Fayerweather, Nos. 8, 14, 44, 50; North Fayerweather, Nos. 3, 4; New Hubbard, Nos. 1, 2, 5, 6, 8, 9, 12, 13, 15, 16, 19, 20; Massachusetts, Nos. 6,

7, 13, 23, 24, 34, 36, 44; New Hampshire, Nos. 5, 10, 17, 27, 32, 42, 50, 52; Richardson, No. 19; Sanborn, Nos. 4, 6, 12, 14; Wheeler, Nos. 3, 14, 22, 28, 39, 45, 55.

$170. College, No. 21; Crosby, Nos. 14, 19; North Fayerweather, Nos. 10, 11, 17, 18; Hubbard, Nos. 2, 4; New Hampshire, Nos. 1, 14; Proctor, Nos. 1, 5; Richardson, Nos. 5, 6, 14, 15.

$180. College, Nos. 2, 4, 5, 16; Crosby, Nos. 3, 15, 18; South Fayerweather, Nos. 4, 9, 10, 16, 17, 23, 24; Hubbard, No. 7; New Hampshire, Nos. 21, 23, 36, 38, 49, 53; Richardson, No. 4; Wheeler, Nos. 1, 16, 24, 26, 41, 43, 57.

$190. College, Nos. 18, 19; Crosby, Nos. 1, 4, 9, 11; South Fayerweather, Nos. 2, 7, 12; Massachusetts, Nos. 5, 8, 14, 22, 25, 33; Proctor, Nos. 2–3.

$200. College, Nos. 6, 20; Crosby, Nos. 2, 10; North Fayerweather, Nos. 1, 6, 8, 13, 15, 20; South Fayerweather, Nos. 14, 19, 21, 26; Massachusetts, Nos. 37, 42; New Hampshire, Nos. 2, 13; Proctor, Nos. 6–7; Richardson, No. 3.

$210. Crosby, No. 21; North Fayerweather, Nos. 2, 5; Massachusetts, No. 38; New Hampshire, Nos, 20, 24, 35, 39.

$220. College, No. 3; Crosby, No. 20; North Fayerweather, Nos. 9, 12, 16, 19; South Fayerweather, No. 8; Hubbard, Nos. 6–8; Massachusetts, Nos. 1, 12; New Hampshire, Nos. 3, 12; Richardson, Nos. 25, 26.

$230. Crosby, No. 13; South Fayerweather, Nos. 15, 18, 22, 25; New Hampshire, Nos. 19, 25, 34, 40; Richardson, No. 30.

$240. Crosby, No. 12; Massachusetts, Nos. 4, 21, 32; Richardson, No. 29.

$250. College, No. 17; Massachusetts, Nos. 3, 9, 15, 20, 26, 31; Richardson, Nos. 7, 8, 12, 16, 17; Wheeler, Nos. 5, 30, 47.

$260. Massachusetts, Nos. 16, 27; Richardson, No. 11; Wheeler, Nos. 4, 20, 37.

$270. Richardson, No. 20; Wheeler, Nos. 13, 29, 46.

$280. Richardson, No. 21; Wheeler, Nos. 21, 38.

FOR THREE OCCUPANTS

$120. Hallgarten, No. 25.

$150. Reed, No. 34.

$165. Reed, No. 33; Thornton, Nos. 8, 16; Wentworth, Nos. 8, 16.

$180. North Fayerweather, Nos. 22–23, 24–25 ; Reed, Nos. 21, 23.
$195. South Fayerweather, Nos. 27–28, 29–30.
$230. Fayerweather, Nos. 41–42, 47–48, 53–54.
$240. Fayerweather, Nos. 5–6, 11–12, 17–18 ; Proctor, Nos. 2–3.
$250. Hubbard, Nos. 6–8.
$270. New Hampshire, Nos. 48, 54 ; Proctor, Nos. 6–7.
$285. Crosby, No. 5.
$300. Crosby, Nos. 6, 8.

FOR FOUR OCCUPANTS

$300. Wheeler, Nos. 56–57.
$420. Massachusetts, No. 40.
$540. Massachusetts, Nos. 18, 29.

Electric lights, 16 candle-power, including lamps, are furnished at $7 a year per lamp.

COLLEGE BILLS

Each student is charged one hundred dollars for tuition. A further charge of twenty-five dollars is made for certain general privileges, including the use of Library, membership in the College Club, and the various advantages growing out of the increase of the College plant.

The minimum amount of tuition required for a degree is $400, whether a student takes the necessary number of hours in four years or less; but any student may take courses allowed by the Faculty in excess of the number required for a degree without extra charge.

Extract from Trustees' Records: "Voted, that all students' bills shall be payable as follows: tuition in equal semi-annual payments on the first day of October and of March in each year; room-rent in semi-annual payments on the first day of December and of May in each year; laboratory and other fees with the first regular term bill after the same are charged. Ten days shall be allowed in which to make payment. If the bill of any student remains unpaid at the close of office hours on the tenth of the above named months (unless the tenth falls on Sunday or a holiday, in which case the eleventh) there shall be added thereto the sum of five dollars which must be paid into the College treasury the same as other fees. No student shall be permitted to take the final examination in any course unless all his college bills due at that date are paid."

By "tuition" is meant the first two items under expenses given in this catalogue, or $125.00; by "room rent" is meant cost of room, electric lights, damages to room, and everything pertaining to the occupancy of a room. Room-rent in the College dormitories is determined by the choice of rooms, heat, care, etc.

Students on entering College must pay tuition for the first semester before matriculation.

A graduation fee of eight dollars is charged all students taking the bachelor's degree.

No student will be dismissed from College on request unless he shall have paid all his College bills, including the current semester; nor shall any student be entitled to a degree until all his College bills are discharged.

Entering students who have been granted scholarship aid will be credited with $20 on their College bill of the first semester, leaving $42.50 balance to be paid before matriculation; if the scholarship of such student, to be determined at the end of the first semester, entitles him to a larger credit, allowance will be made upon the College bill of the second semester.

Students whose residence is in the State of New Hampshire will receive $30 instead of $20 as Scholarship aid, owing to the increase in the Second College Grant Fund.

Students receiving scholarship aid to the amount of $40 will pay $42.50 each semester; those receiving $50 will pay $37.50; those receiving $60 will pay $32.50; those receiving $70 will pay $27.50. All students not receiving scholarship aid will pay $62.50 each semester.

ESTIMATE OF EXPENSES

Tuition	$100.00		$100.00
College Expenses	25.00		25.00
Text-books	10.00	to	30.00
Laboratory Fees (if courses elected)	6.00	to	15.00
Room-Rent and lights	35.00	to	150.00
Board from $3.00 to $5.00 a week	108.00	to	180.00
Washing	10.00	to	30.00
	$294.00	to	$530.00

Expenses such as furniture, fraternity fees, class-taxes, travelling expenses, etc., vary according to circumstances, and with the character and habits of the individual, and are not included in the above estimate.

No one is advised to attempt a college education until he can assure himself, through the aid of friends, or through his own previous earnings, of a sufficient amount to meet the expenses of the first year. The opportunities for self-help increase during one's college course; it is very rarely the case that one may expect to secure such employment at the beginning as will enable him to meet his expenses.

SCHOLARSHIPS

THE HENRY ELIJAH PARKER FELLOWSHIP

This Fellowship is based upon a fund bequeathed to Dartmouth College by Professor Parker who was Professor of the Latin Language and Literature in Dartmouth College from 1866 to 1896, the last four years as Professor Emeritus.

The value of the fellowship is $500 a year, and may be held for two years. The holder of the fellowship shall be a graduate of not more than one year's standing, recommended by the Faculty. If judged advisable by the Faculty, he may be allowed a year for special preparation before entering upon the duties of his fellowship or receiving the income attached to it. During the time in which he is upon the fellowship he shall pursue advanced studies, not professional, subject to the approval of the Faculty. He shall also regard himself as committed to an engagement as a teacher in the College for the year after his fellowship expires, in case the College requires his services, at the usual compensation for the grade of his appointment.

THE GEORGE EPHRAIM CHAMBERLAIN FELLOWSHIP

This fellowship is based upon a fund given by Mrs. Addie D. McAlpine of New York City in commemoration of the life and service of George Ephraim Chamberlain of the Class of 1860, major of the eleventh regiment of Vermont Volunteers in the Civil War, who was killed in battle near Charleston, West Virginia, August 23, 1864. The value of the fellowship is five hundred dollars a year and may be held for two years. The conditions are the same as those applied to the Parker Fellowship.

THE TUCKER ALUMNI FUND FELLOWSHIP

The Committee of the "Tucker Alumni Scholarship and Instruction Fund" offer a fellowship of the value of five hundred dollars a year, open to a graduate of not more than one year's standing, the assignment to be made according to the principles which determine the selection of a Rhodes Scholar.

RESIDENT GRADUATE SCHOLARSHIPS

Eleven scholarships enumerated below, yielding two hundred dollars each for one year, are open to graduates of the College who wish to continue their studies in residence. These scholarships are designed particularly for those who intend to teach, but are not limited to those who have this end in view, unless so specified.

A graduate student receiving a scholarship may have the tuition fee remitted in return for service rendered the department in which he is doing his work, or in return for clerical service in one of the College offices.

The Betsey R. Lang Scholarship $500
given by Mrs. Betsey R. Lang of South Boston, Mass.

The Ann L. Paige Scholarship 4033
given by bequest of John C. Paige of Boston, Mass.

The Smyth Fund 5000
given by bequest of Frederick Smyth of Manchester, N. H.

Two scholarships drawn from the Moor's Charity Fund and applied by designation of the Trustees of the Fund to graduate students assigned to instruction in the Hanover High School.

Six scholarships drawn from the general fund, open only to those who intend to teach.

THE SCHOLARSHIP SYSTEM BASED ON BENEFICIARY AID

For Scholarship honor, irrespective of beneficiary aid, see "Honors."

Scholarships, in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a college education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

While scholarship aid is based upon pecuniary need, the amount of this aid above forty dollars is determined by actual proficiency in scholarship, taken in consideration with faithfulness in attendance and study.

The system of scholarships based upon beneficiary aid is determined by the standing of a student in college: rank of 60 gives $40; 70 gives $50; 80 gives $60; 90 gives $70.

See special provision for New Hampshire students under "Second College Grant Scholarships."

The following rules govern the bestowal of beneficiary aid, and apply to all undergraduate scholarships:

(1) All applications must be made on blanks furnished by the Dean, which require the signatures of parties concerned and testimonials in respect to character and attainments.

(2) No student who is not in full standing with a rank of at least 60, or who is on probation, shall receive beneficiary aid, a scholarship, or a loan.

(3) In addition to the restrictions which may be imposed by the donors of scholarships, the conditions of careful economy in personal expenses and of abstinence from intoxicating liquors are imposed by the College.

(4) Applications for the renewal of beneficiary aid and scholarship or loan from year to year must be made out on blanks furnished at the Dean's office, and must be filed at his office by June 1; each application must contain a complete statement of income and expenditure during the year preceding.

(5) The value of the scholarship in addition to the beneficiary aid will be determined by the average rank of the previous year. In Freshman year the rank of the first semester will determine the amount of scholarship for that year.

(6) Students, whose records are incomplete, must pay their College bills on the basis of beneficiary aid only; when the work of the previous year is completed, credit will be given according to standing.

SCHOLARSHIPS

SECOND COLLEGE GRANT SCHOLARSHIPS. — This fund, now amounting to $140,000, is derived from the earnings of the Second College Grant, a tract of land in northeastern New Hampshire given to the College by the State on June 18, 1807. The income from this fund as well as from the grant itself is used for the benefit of New Hampshire students. Owing to the recent increase in this Fund, the College is able to advance the scholarship allowance to New Hampshire students to the following schedule: rank of 60 gives $60; 70 gives $70; 80 gives $80; and 90 gives $90. This increase in scholarship applies to students entering College since 1906.

STATE SCHOLARSHIPS. — These scholarships, open only to New

Hampshire students, are derived from the income of the fund, $10,000, appropriated by the State of New Hampshire in 1883.

THE MINISTRY SCHOLARSHIPS. — Representing funds to the value of $14,000, collected by President Tyler in 1823–24, for the education of young men studying for the Gospel ministry.

THE CLARK SCHOLARSHIPS. — This fund, amounting to $7000, is based on the fund of $2000 given by Mrs. Mary Clark of Portsmouth, New Hampshire, in 1833, for students studying for the ministry.

THE CLASS OF 1876 MEMORIAL FUND. — Representing the sum of $2500 given by the class at their twenty-fifth reunion.

THE CLASS OF 1877 MEMORIAL FUND. — Representing the sum of $2800 given by the class at their twenty-fifth reunion.

THE COUNTY CONFERENCE SCHOLARSHIPS. — Representing funds to the value of $7000, available to students studying for the ministry, preferably from the county contributing; namely, Cheshire, Grafton, Hillsborough (2), Merrimack, Rockingham, Strafford, and Sullivan.

THE HAVEN FUND FOR SCHOLARSHIPS. — Based on a fund of $9000 given by bequest of Eliza A. Haven of Portsmouth, N. H., to establish six scholarships.

THE EPHRAIM P. HOWARD SCHOLARSHIPS. — Based on a fund given by bequest of James T. Howard of St. Johnsbury, Vt. By the provisions of the donor not available at present.

THE JOHN S. JENNESS FOUNDATION. — This foundation, amounting to $10,000, was given by Mrs. Betsey Whitehouse of Pembroke, New Hampshire, to found ten scholarships. In awarding these preference shall be given to one student from each of the ten counties of the State of New Hampshire.

THE LEONARD JEWETT SCHOLARSHIP. — Representing the sum of $700 given by bequest of Leonard Jewett of Hollis, N. H., to aid two or more young men.

THE KINGMAN SCHOLARSHIPS. — This fund, amounting to $11,000, was given by Jeremiah Kingman of Barrington, New Hampshire, to found eleven scholarships. In awarding these the preference for one shall be given to some student from the town of Strafford, and for the other ten preference shall be given to one student from each of the ten counties in the State of New Hampshire.

THE HENRY H. LADD SCHOLARSHIPS. — Representing the sum of $5000 given by Henry H. Ladd of Portsmouth, N. H.

THE SARAH REID MCMURPHY, THE HENRY JAMES MCMURPHY, AND THE ABBY FRANCES MCMURPHY SCHOLARSHIPS. — Repre-

senting the sum of $5446 given by bequest of Mrs. Sarah R. McMurphy of Derry, N. H.

THE TYLER AND WYMAN SCHOLARSHIPS. — Representing the sum of $2200 given by bequest of Mrs. Elizabeth W. Tyler of Pelham, N. H., for students for the Congregational ministry.

THE DR. CHASE WIGGIN SCHOLARSHIP. — Based on a bequest of $2000 of Chase Wiggin of Providence, R. I. Two-thirds of the income is awarded, the balance accumulating by provision of the donor. Recipients must not use liquor or tobacco.

THE LUKE WOOD FUND. — Based on a fund of $5000, given by bequest of Martha W. Brown of Hartford, Conn.

THE CHARLES HOWE WOODBURY SCHOLARSHIPS. — Based on a fund of $5000, given by Mrs. Frances E. Woodbury of New York City, to found two scholarships to be given to two students of the Senior class who are intending to make law a profession, who have shown by previous college work special attainment and fitness for the study of law.

Separate scholarships as follows:

The R. E. Avery Scholarship $1900
given by bequest of Mrs. Julia E. Avery of Brooklyn, N. Y.

The Bouton Scholarship 1500
given by the family of Nathaniel Bouton, of Concord, N. H.

The Stephen Wells Clarke Scholarship 2000
given by George Kuhn Clarke of Boston, Mass.

The Richard Foster Scholarship 2500
given by bequest of Mrs. Sarah B. Foster of West Springfield, Mass. for students for the ministry.

The Emily Wheelock Hill Scholarship 2500
given by Caroline Wheelock Hill of Wilkinsonville, Mass.

The Jesup Scholarship 1200
given by Henry G. Jesup, Hanover, N. H.

The David Jewett Scholarship 2000
given by bequest of W. R. Jewett of Concord, N. H.

The Roswell Shurtleff Scholarship 1500
given by Mrs. Anna Pope Emerson of Hanover, N. H.

Separate scholarships of the value of $1000 each:

The Aiken Scholarship given by Jonas B. Aiken of Franklin, N. H.

The William Baker Scholarship given by bequest of Mrs. Caroline A. Lawrence of West Winsted, Conn. Recipient must be a candidate for the B.S. degree.

The Benson Scholarship given by Mrs. Maria T. Benson of Lawrence, Mass. Recipient must not use liquor or tobacco.

The Richard Boylston Scholarship given by the family of Richard Boylston of Amherst, N. H.

The Joseph P. Brooks Scholarship given by Joseph P. Brooks of Chicago.

The Emily Clark Brown Scholarship given by Edward J. Brown of Minneapolis, Minn.

The Burleigh Scholarship given by George W. Burleigh of Great Falls, N. H.

The Samuel M. Burnside Scholarship given by bequest of Miss Harriet P. F. Burnside of Worcester, Mass. Recipient must be a candidate for the A.B. degree.

The Carr Scholarship given by bequest of William Carr of Newport, N. H., for students for the ministry.

The Cilley Scholarship given by bequest of Jacob G. Cilley of Manchester, N. H.

The Lizzie S. Converse Scholarship given by bequest of Miss Sarah E. Converse of Burlington, Vt. Recipient must be a candidate for the A.B. degree.

The Cushing Scholarship given by George W. B. Cushing of New York City.

The Dodge Scholarship given by William E. Dodge of New York City, for students for the ministry.

The Edgell Scholarship given by George S. Edgell of New York City, for a religious man, preferably from Missouri, otherwise a western man studying for the A.B. degree.

The Rev. John M. Ellis Scholarship given by Mrs. Josephine M. Ellis of Milford, N. H. Recipient must be a candidate for the A.B. degree.

The John D. and Leon Low Emerson Scholarship given by Edward D. Emerson of Buffalo, N. Y. Preferably a loan fund.

The Horace Fairbanks Scholarship given by Horace Fairbanks of St. Johnsbury, Vt.

The Thaddeus Fairbanks Scholarship given by Thaddeus Fairbanks of St. Johnsbury, Vt.

The Fairfield Scholarship given by Josiah H. Fairfield of Hudson, N. Y.

The Fogg Scholarship given by William H. Fogg of New York City.

The Gookin Scholarship given by Warren D. Gookin of New York City.

The Gordon Scholarships (two) given by Nathaniel Gordon of Exeter, N. H.

The Greene Scholarship given by William H. Greene of Buffalo, N. Y.

The Grimes Scholarship given by James W. Grimes of Burlington, Ia.

The Mrs. James W. Grimes Scholarship given by James W. Grimes of Burlington, Ia.

The Harris Scholarship given by Mrs. Mary Harris of Manchester, N. H. Students for the ministry preferred.

The Tracy H. Harris Scholarship given by bequest of Tracy H. Harris of New York City.

The Hartshorn Scholarship given by Mrs. Adaline Hartshorn of Manchester, N. H. Awarded preferably to sons of missionaries.

The Hitchcock Scholarship given by Hiram Hitchcock of Hanover, N. H. Awarded preferably to student from Claremont, N. H.

The Hunt Scholarship given by Seth B. Hunt, of New York City.

The Hutchinson Scholarship given by John B. Hutchinson of New York City.

The Jordan Scholarship, given by Chester B. Jordan of Lancaster, N. H. Recipient must be from New Hampshire.

The Kendrick Scholarship given by Henry L. Kendrick of West Point, N. Y.
The Kittredge Scholarship given by Moses Kittredge of St. Johnsbury, Vt.
The Knight Scholarship given by Miss C. Knight of Rochester, N. H.
The Mary Langdon Scholarship given by William T. Savage of Franklin, N. H. Recipient must have Christian ministry in view.
The Lawrence Scholarship given by Aaron Lawrence of Amherst, N. H.
The Lue Lawrence Scholarship given by bequest of Miss Sarah Lucretia Lawrence of Amherst, N. H.
The Mary H. Lord Scholarship given by Mrs. Mary H. Lord of Andover, Mass. For students for the ministry.
The William G. Means Scholarships (two) given by William G. Means of Boston, Mass.
The Morton Scholarship given by Levi P. Morton of New York City.
The Daniel O. Morton Scholarship given by Levi P. Morton of New York City.
The Nesmith Scholarship given by George W. Nesmith of Franklin, N. H.
The Daniel Nettleton Scholarship given by Fred H. Nettleton of St. Paul, Minn.
The William W. Niles Scholarship given by William W. Niles of New York City.
The Albert Onion Scholarship given by bequest of Mrs. Abigail W. Onion of Chester, Vt.
The Parker Scholarship, Memorial of Edith Florence Parker, given by Joel Parker of Cambridge, Mass.
The Peaslee Scholarship given by Edmund R. Peaslee of New York City.
The Frederick C. Perry Scholarship given by bequest of Mrs. Henrietta Perry of Cincinnati, O.
The William Rand Scholarship given by bequest of William Rand of Rochester, N. H.
The Richards Scholarship given by Dexter Richards of Newport, N. H.
The Joel Richardson Scholarship given by James B. Richardson of Boston, Mass. Awarded to candidate for the A.B. degree, preferably from Orford, N. H.
The John Jones Sargent Scholarship given by Jonathan E. Sargent of Concord, N. H.
The Simmons Scholarship given by David A. Simmons of Roxbury, Mass.
The Stanton Scholarship given by Samuel Stanton of London, Eng.
The Asa Stevens Scholarship given by bequest of Mrs. Sarah J. Stevens of Boston, Mass. Awarded preferably to students from New Hampshire.
The Stephen N. Stockwell Scholarship given by Stephen N. Stockwell of Boston, Mass.
The Stone Scholarship given by Mrs. Benjamin P. Stone of Concord, N. H.
The Janet Swan Scholarship given by bequest of Miss Elizabeth S. Swan of Amherst, N. H.
The Samuel Swan Scholarship given by bequest of Miss Elizabeth S. Swan of Amherst, N. H.
The Tenney Scholarship given by William Tenney of Hanover, N. H. Recipient must not use liquor or tobacco.

The William C. Todd Scholarship given by William C. Todd of Atkinson, N. H.

The Trussell Scholarship given by bequest of Jacob Trussell of Canaan, N. H., for students for the Congregational ministry.

The Twombly Scholarship given by Horatio N. Twombly of New York City.

The John S. Wallace Scholarship given by Mrs. Celia Whipple Wallace of Chicago. Recipient must be a candidate for the B.S. degree.

The Wheeler Scholarships (two) given by David E. Wheeler of New York City.

The Thomas Whipple Scholarship given by Mrs. Celia Whipple Wallace of Chicago. Recipient must not use liquor or tobacco.

The Mrs. Betsey Whitehouse Scholarship given by Mrs. Betsey Whitehouse of Pembroke, N. H. Recipient must be a candidate for the A.B. degree.

The John P. Williams Scholarship given by bequest of Mrs. Abigail W. Onion of Chester, Vt.

The George Frederic Wingate Scholarship given by Miss Isabel C. Wingate of Exeter, N. H. Recipient must be a candidate for the B.S. degree.

The Dutton Woods Scholarship given by Miss Maria Woods of Concord, N. H. Recipient must be a candidate for the B.S. degree.

ENTRANCE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four entrance scholarships of the value of $100 each will be assigned to those members of each incoming class who enter by examination with a rank of at least (80). These scholarships will be assigned in order of rank.

The examination for these scholarships must be taken at the College or at places specified in the catalogue at the June examinations. This examination cannot be divided between preliminaries and finals, nor between the June and September examinations.

COLLEGE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four scholarships of the value of $100 each will be given, one to each class, to that student who attains the highest standing for the year, provided that standing is above 90.

Should any class fail to meet the requirement for this scholarship, it will be assigned to the highest ranking student in the other classes who is a candidate and has not already received one of these scholarships.

These scholarships will be announced on July 20 of each year, and the amount of such scholarship in excess of credit allowed during the year on any other scholarship will be paid at that time.

LOAN FUNDS

The John H. Pearson Fund

The Trustees of the John H. Pearson Fund have given to the Trustees of Dartmouth College a certain sum, to be used as a loan fund for the benefit of New Hampshire students who are in Dartmouth College. It has been assumed by them that there are students who would prefer to receive aid through loans *rather than through scholarships.*

Under the terms of this loan, a student who is in pecuniary need, in place of beneficiary aid, may give his note, subject to the approval of his father, though not calling for his endorsement if the student is a minor. The note shall not bear interest while the student is in College. If extended for four years after graduation it shall bear interest at four per cent; if extended beyond four years it shall bear interest at six per cent. If a student leaves College without graduation, interest shall begin at once at six per cent.

The College Fund

A similar fund is available (within the limit of $3000) under like conditions for students from *outside of* New Hampshire.

The rules governing the granting of a loan are the same as those governing the bestowal of beneficiary aid.

The Mary Weston Keyes Endowment

The sum of $3207 given by Adsun Dean Keyes of Fairbault, Minn., "the income of which is to be available as a loan without interest to those students who actually intend to practise law as a life-work." By provision of the donor not available at present.

Some additional aid is furnished in the way of compensation to those students who are appointed by the Dean as monitors and by the Librarian as assistant librarians.

PRIZES

I. ORATORICAL PRIZES.

1. *The Benjamin F. Barge Prize.* Through the gift of $2500 by the late BENJAMIN F. BARGE of Mauch Chunk, Pennsylvania, a graduate of Yale, but a member for one year of the Class of '57 Dartmouth, a *gold medal* of the value of $100 is offered annually "to that member of the Senior Class in any collegiate department or course, who, in competition therefor, shall write and pronounce in public an English oration in the best manner."

2. *Class of 1866 Prizes.* Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by WALDEMAR OTIS, of New York City, in the name of the CLASS of 1866, are offered to the Junior and Sophomore classes for excellence in Original Orations, to be contested for by two students from each of these classes.

3. *The Rollins Prizes.* The sum of *one hundred* dollars, annually contributed by E. W. and F. W. ROLLINS, is offered in three prizes of *forty*, *thirty-five*, and *twenty-five* dollars respectively, for excellence in Declamation, to be contested for by two students from each of the three lower classes in the College.

4. *The Smith Prizes.* The sum of *fifty* dollars, annually contributed by Professor JUSTIN H. SMITH, Class of 1877, is offered in two prizes of *thirty* and *twenty* dollars respectively, to the Senior Class for excellence in Extemporaneous Oratory, to be contested for by four students.

5. *The Lockwood Prizes.* Two prizes, of *twelve* and *eight* dollars respectively, established by LEGRAND LOCKWOOD, of New York, are offered to the two students who shall do the best individual work in the preliminary trials for the intercollegiate debating teams.

II. RHETORICAL PRIZES.

1. *The Grimes Prizes.* Two prizes, of *forty-two* and *twenty-eight* dollars respectively, established by JAMES W. GRIMES of Burlington, Iowa, are offered to the Senior Class for excellence in English Composition.

2. *The Lockwood Prizes.* Two prizes, of *twelve* and *eight* dollars respectively, established by LEGRAND LOCKWOOD, of New York, are offered to the Junior Class for excellence in English Composition.

3. *Hovey Poem Prize.* A prize of *fifty* dollars is offered by ARTHUR L. LIVERMORE, of New York City, in memory of Richard Hovey, of the Class of 1885, for such poem of any subject, length, or verse-form, written by an undergraduate during the year, as shall seem worthy of the award.

4. *Short-Story Prize.* A prize of *fifty* dollars is offered by an anonymous alumnus for the best Dartmouth story written by an undergraduate during the year. The story may be of any time or nature so long as it deals with the College, the college life, or the college men.

III. LATIN PRIZES. Two prizes, of *twenty* and *ten* dollars respectively, established by the CLASS of 1846, are offered to the members of the Junior Class who shall maintain the best positions, and pass the best examinations in the studies of the Latin Department, including Latin Composition.

IV. GREEK PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by the joint gift of EDWARD SPAULDING and JOSIAH G. DAVIS and named the ATHERTON PRIZES, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the prescribed and elective studies of the Greek Department.

V. MATHEMATICAL PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by GENERAL SYLVANUS THAYER, of Braintree, Massachusetts, are offered to the members of the Sophomore Class for excellence in Analytic Geometry and the Differential and Integral Calculus.

VI. MODERN LANGUAGE PRIZE. A prize of *forty* dollars established by a bequest of THOMAS J. W. PRAY, of Dover, New Hampshire is offered "to the best scholar, throughout the entire collegiate course, in Modern Languages."

VII. PRIZE FOR GENERAL IMPROVEMENT. A prize of *seventy* dollars, established by JAMES W. GRIMES, of Burlington, Iowa, is offered to "that member of the Senior or graduating class who, in the judgment of the College Faculty, has during his College course made

the most satisfactory progress, taking into consideration his preparation for the course when he entered College."

VIII. MECHANICAL DRAWING. The sum of *twenty-five* dollars annually contributed by CHARLES R. SPALDING, of Chicago, is offered in two prizes of *fifteen* and *ten* dollars respectively, to the members of the Junior Class (B.S. course), for the best sets of Mechanical Drawings, comprising Isometrical, Tinted, and Descriptive Geometry Drawings, and Surveying Plots.

IX. THE BENNETT PRIZE. A prize of *sixteen* dollars established by bequest of PHILO SHERMAN BENNETT, of New Haven, Connecticut, to William J. Bryan, of Lincoln, Nebraska, in trust, and by him awarded to Dartmouth College, is offered for a prize for the best essay discussing the principles of free government.

X. PHILOSOPHICAL PRIZE. A prize of *twenty-five* dollars established by JOSEPH STORY, of Boston, Massachusetts, is offered "to be used for the publication of the best thesis on a subject in Philosophy, presented by any member of the Senior Class."

XI. HISTORICAL PRIZE. A prize of *twenty-five* dollars is offered by Charles Walker Pickering, of Greenland, N. H., in the name of the Class of 1859, to that member of the Senior or Junior Class who shall present the best thesis upon an historical subject according to the specifications made by the History Department of the College.

XII. THE MINA H. WARREN PRIZE SCHOLARSHIP. A prize of *fifty* dollars is established by Kenneth Archibald, '02, and Cecil Archibald, '05, is offered "to that member of the graduating class, four years in attendance at Dartmouth College, and ranking highest in scholarship."

THE DANTE PRIZE. THE DANTE SOCIETY of America offers an annual prize of *one hundred* dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students and graduates of not more than three years' standing of any college or university in the United States. All inquiries concerning subjects for this year and regulations governing the competition should be addressed to the Secretary of the Society, Professor F. N. Robinson, Cambridge, Mass.

THE CECIL RHODES SCHOLARSHIP. Attention is called to the Cecil Rhodes Scholarship of the yearly value of £300 and tenable at any college in the University of Oxford for three consecutive academic years. The next appointment from New Hampshire will be made in 1910. Full particulars regarding conditions, etc., may be obtained on application to the Dean of Dartmouth College.

HONORS

COMMENCEMENT APPOINTMENTS

The speakers at Commencement are appointed by the Faculty on the basis of excellence in general scholarship for the entire College course; the first two in order of rank deliver orations at Commencement and four others selected from among those whose rank for the course is 85 or above; all whose average rank is 85 or above will be indicated on the Commencement programme.

RUFUS CHOATE SCHOLARS

Students who attain a rank of 92 are designated "Rufus Choate Scholars." The designation is entirely a term of honor and carries with it no pecuniary allowance. The assignment is made at the close of each year, and the names of such scholars are to be announced by the Dean, and published in the annual catalogue.

HONORS

For excellence in special departments of study, three grades of honors are awarded by the Faculty, — Honorable Mention, Honors, and Special Honors.

HONORABLE MENTION

Honorable Mention is awarded in the following courses of study to students who obtain an average rank of 92 per cent in the courses specified below for each department:

GREEK, for Courses 5, 6, 7, and 8.
LATIN, for Courses 1, 2, 3, and 4.
ENGLISH, for Courses 1, 2, 3, and 4; or for Courses 1, 2, 9, and 10.
FRENCH, for any *four* of the following Courses: 1, 2, 3, 4, 5, 6, 7, 8, 11, 12.
GERMAN, for any *four* of the following Courses: 1, 2, 3, 4, 5, 6, 7, 8.
MATHEMATICS, for Courses 1, 2, 7, and 8; or for Courses 3, 4, 9, and 10.
GRAPHICS, for Courses 1, 2, 3, and 4.
PHYSICS, for Courses 1, 2, 3, and 4.
ASTRONOMY, for any combination of four courses.

CHEMISTRY, for Courses 2, 3, 4, and 5 or 7.
ZOÖLOGY, for courses in Biology 1, 2, and any two B courses in Zoölogy.
BOTANY, for courses in Biology 1, 2, and any two B courses in Botany.
GEOLOGY and MINERALOGY, for any four courses.
HISTORY, for Courses 1 and 2, and any other two courses.
ECONOMICS, for Courses 1, 2, and any other two courses.
POLITICAL SCIENCE, for Courses 1, 2, 7, and either 4 or 8; or for Courses 1, 3, and either 5-6 or 7–8.
SOCIOLOGY, for Courses 1, 2, 3, 4.
PHILOSOPHY, for Courses 1, 2, 7, and 8.
MUSIC, for Courses 1, 2, 3, 4.

The names of students receiving Honorable Mention are printed in the annual catalogue published next after the award.

HONORS

Honors are awarded in the following departments of study to students who maintain an average rank of 92 per cent in the courses specified below for each department, and who in addition pass with credit a special examination at the close of the work:

GREEK, Courses 17, 18, and an average of three hours of Greek in each semester of Junior and Senior years, including Greek 19 and 20 and Archæology 5 or 6.
LATIN, one three-hour course in each semester of Junior and Senior years.
ENGLISH, Courses 1, 2, and 3, 4, or 9, 10, and 5, 6, 15, 16.
FRENCH, Courses 7, 8, or 11, 12, and any two of the following courses: 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.
GERMAN, any three of Courses 7, 8, 9, 11, 12, 13, 14, and Courses 17, 18.
COMPARATIVE LITERATURE, Courses 1 and 2, French 11 and 12, German 5 a, 6 a, or 7, 8, or 11, 12.
MATHEMATICS, Courses 7 and 8, or 9 and 10, and 11, 12, 13, 14, and 16.
GRAPHICS, all courses in Civil Engineering.
PHYSICS, Courses 3, 4, 5, and any one of Courses 6, 7, 8, 9, 10, 11, 12, 13.
ASTRONOMY, Courses 2, 3, 4, and 6 or 7; or Courses 2, 6, 7, and 8.
CHEMISTRY, Courses 3, 4, 5, 6, 7, 8.
ZOÖLOGY, courses in Biology, 4, 7, 9, 10.
BOTANY, courses in Biology, 5, 6, and any two of the following courses: 7, 12, 13, 14.
GEOLOGY and MINERALOGY, for all courses.
HISTORY, four courses, not included in Honorable Mention.
SOCIOLOGY, all the undergraduate courses.
PHILOSOPHY, Courses 4, 5, 12, 13.

SPECIAL HONORS

Special Honors are awarded in the departments specified below to those who fulfil the conditions mentioned hereafter.

Any student who attains the average rank of 85 per cent in the studies of Junior year, or who attains 92 per cent in any department, with an average of at least 80 per cent in all departments, in the studies of Sophomore and Junior years, will be allowed to become a candidate for Special Honors in any department in which he has attained a rank of 90 per cent. Students who are thus entitled to become candidates for Special Honors, and who wish to do so, must give written notice to that effect to the Dean of the Faculty and to the officer in charge of the department in which Special Honors are sought, on or before the 15th of October of their Senior year, and must fulfil the following conditions:

(a) They must take the elective courses indicated below in the department in which they seek Special Honors, and must also pursue such additional courses of study and collateral reading or investigation as shall be prescribed. At the close of the year they must pass a special examination covering their work in the department, including the courses of collateral reading or investigation presented for Special Honors, and designed to test the range and accuracy of their work.

(b) They must also, if required, present theses satisfactory to a committee appointed by the Faculty, embodying the result of their special study. The subjects of theses shall be announced not later than March 1, and the theses must be handed to the Dean of the Faculty not later than June 10 of Senior year.

(c) They must maintain their general standard of scholarship, and if their average rank falls below 80, or if it falls below 70 in any one department in any Semester, they will be required to discontinue their work for Special Honors.

(d) No student will be allowed to become a candidate for Special Honors in more than one subject, without a special vote of the Faculty.

Special Honors may be sought in the following departments:

GREEK — Continuous work in Greek throughout the course, covering all Greek courses of Freshman year, two courses in Sophomore year, one of which must be a three-hour course, and an average of four hours a week in

Junior and Senior years. This work must include Greek 17, 18, 19, and 20, and Archæology 5 or 6. The candidate will do additional work, equivalent to at least one three-hour course for a year, to be assigned at the opening of Senior year; he will be examined on this work and on his general attainments in Greek at the end of Senior year. A thesis is required.

LATIN — Work in the elective courses of Junior and Senior years amounting to four hours a week; an examination on the work of some Latin author not covered in the course, and also a general examination upon Latin Literature, with more special reference to the period to which the particular author studied belonged. A thesis is required.

ANCIENT CLASSICS — Courses in Greek and Latin covering an average in each of three hours a week in Junior and Senior years. Special study in one of the two languages amounting to the work of a three-hour course for Senior year will be required, and the final examination will cover this study, as well as the general work in the two languages. A thesis in connection with the subject of special study may be required.

ENGLISH — Eight courses, with examinations on all courses of Junior and Senior years, and upon two authors outside the course, amounting to three hours for Senior year. A thesis will be required.

FRENCH — Any *six* of the following courses: 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. A thesis will be required.

GERMAN — Courses 13, 14, and any two of Courses 7, 8, 9, 11, 12, and any three of Courses 17, 18, 19, 20, 21, 22, 23–24, with collateral reading and study. A thesis will be required.

MATHEMATICS — All courses, and advanced work in Calculus, and its applications. A thesis may be required.

PHYSICS — Courses 1, 2, 3, 4, 5, and any three of Courses 6, 7, 8, 9, 10, 11, 12, 13, with the solution of some simple research problem described in a thesis.

ASTRONOMY. — All courses with collateral reading and thesis on some special problem.

CHEMISTRY. — Courses 2, 3, 4, 5, 6, 7, 8, and 10, with either 11, 12, or 13, 14, or 15, 16. A thesis may be required.

ZOÖLOGY — Courses in Biology 1, 1 a, 2, 3, 4, 7, 9, 10, 16, and either 5 or 6, with special laboratory work and collateral reading amounting to a minimum of three hours per week for Senior year.

BOTANY — Courses in Biology, 1, 1 a, 2, 5, 6, 7, 12, 13, 14, and either Courses 3 or 4, with collateral reading and such additional work as may be indicated by the instructor, amounting to a minimum of three hours per week for Senior year.

HISTORY. — At least eight courses with collateral reading and additional work, amounting to a minimum of three hours per week for Senior year. A thesis may be required.

ECONOMICS — Courses 1 and 2 and either 3 or 4, and three Senior courses, including either 17 or 18, collateral reading, and possibly a thesis in Senior year, upon which a special examination must be taken.

POLITICAL SCIENCE — Courses 3, 5, 6, with collateral reading and study amounting to three hours a week for Senior year.

PHILOSOPHY — Candidates must take at least eight courses, and do original, critical work in Greek philosophy, or in German philosophy. Thesis will be required.

Any student who has an average rank for his entire college course of 90 per cent, or who has received Honorable Mention in two departments and Honors in one department, or who has received Honorable Mention in one department and Special Honors in another, shall receive a degree *cum laude.*

Any student who has an average rank for his entire college course of 92 per cent, or who has received Honorable Mention and Honors in two departments, or who has received them in one department together with Special Honors in another, shall receive a degree *magna cum laude.*

Any student who has an average rank for his entire college course of 94 per cent, or who has received Honorable Mention and Honors in two departments, together with Special Honors in any department, shall receive a degree *summa cum laude.*

The names of recipients of Honors are printed on the Commencement programme and in the annual catalogue.

DEGREES

The degrees of Bachelor of Arts and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have duly completed the Classical and Chandler Scientific courses, respectively. For degrees with Honors, see preceding page.

The degrees of Master of Arts and Master of Science will be conferred under the following conditions:

(1) The degree of Master of Arts will be conferred on Bachelors of Arts and Bachelors of Letters of the College of at least one year's standing who shall have pursued in residence at the College, or, provided the approval of the Faculty has been first obtained, in the graduate department of any other college or university, for one full year a course of graduate study approved by the Committee on Graduate Instruction as affording suitable preparation for that degree, and shall have completed and passed an examination on such course with high credit. A thesis is ordinarily required, but, on recommendation of the department in which the degree is sought, this requirement may be waived by the Committee on Graduate Instruction.

The instruction approved by the Committee on Graduate Instruction for the Master's Degree may consist of:

(a) Courses of instruction of advanced grade, twenty-four semester hours being ordinarily required to constitute a full year's work, at least twelve of which shall be in the major subject; or the work may be partly or wholly made up of—

(b) Research or special study carried on under the direction, or with the criticism and approval, of the head of the appropriate department.

The Master's Degree is deemed the appropriate reward for graduate students who have shown marked proficiency in liberal studies. In every case the program of work approved for candidates for that degree must form a consistent plan of study, and it ordinarily will be pursued

in more than one department. No work which is to be counted for any other advanced degree, except that of Doctor of Philosophy, will be approved as a constituent part of the course of study for the Master's Degree.

(2) The Degree of Master of Arts will also be conferred on Bachelors of Arts and Bachelors of Letters of the College of at least three years' standing who shall have pursued, although not in residence, an approved course of graduate study substantially equivalent in kind, grade, and amount to that prescribed for resident candidates for that degree, and shall have completed and passed an examination on such course of study with high credit, and presented a satisfactory thesis.

(3) The Degree of Master of Science will be conferred on Bachelors of Science of the College under the same conditions that are prescribed for the Degree of Master of Arts.

(4) A Bachelor of Arts or Bachelor of Letters of the College may become a candidate for the Degree of Master of Science, and a Bachelor of Science may become a candidate for the Degree of Master of Arts, upon special permission of the Committee on Graduate Instruction.

(5) Persons who have received the Bachelor's Degree in any other college whose requirements for the degree are equal to those of this College, may be recommended for the corresponding Master's Degree on the same conditions that are prescribed for graduates of this College, except that the specified course of study must be pursued in residence at this College, either during one full college year, or during sessions of the Summer School. In the latter case the student must complete at least fifteen semester hours in residence, but may do the remainder of the work for the degree *in absentia* under the direction of the department concerned.

(6) Resident candidates for the Master's Degree shall be charged the same tuition as undergraduates. They shall be charged also a fee of $10 for the diploma. Non-resident candidates for the same degree shall be charged a fee of $10 for registration, and of $25 for examination and verification of the thesis and for the Diploma.

The degree of Doctor of Philosophy is at present offered in only a few departments, and any one wishing to secure that degree after a course of study should apply to the Chairman of the Committee on Graduate Instruction.

SPECIAL REGULATIONS

REGISTRATION

1. Resident candidates for the Master's Degree must register at the office of the Dean on the first day of the college year. Non-resident candidates must notify the Dean in writing before the opening of the college year.

Every resident and non-resident candidate for the Master's Degree must furnish to the Dean, at the time of registration or enrollment, upon a blank furnished by him upon application:

(a) His name in full and present residence; (b) date and place of graduation, and the degree received; (c) present occupation, and (if to become a non-resident candidate) probable time available for graduate study during the ensuing year; (d) the degree sought; (e) the department or departments in which he desires to work while a candidate for that degree; (f) a careful description of his undergraduate courses, and of any additional reading, laboratory work, or teaching, which may fit him for his proposed graduate work, together with the extent of his ability to use other languages than English; (g) his probable subsequent career.

2. These registration papers will be referred to the Secretary of the Committee on Graduate Instruction, and, if the applicants prove to be duly qualified, will be transmitted to the heads of the appropriate departments, to prepare courses of study adapted to the requirements of each case. Such courses of study shall be filed in duplicate with the Committee on Graduate Instruction, and if approved by the Committee, copies of these courses of study will be transmitted by it to the several candidates.

3. Registration will not be deemed complete until the tuition of the first semester shall have been paid by resident candidates, and the registration fee of $10 by non-resident candidates. These payments are due within one week after the opening of the first semester.

THESIS

4. The approval of both subject and matter of the thesis rests with the Division of the Faculty under which the work is done.

5. The subject of the thesis must be announced to the Secretary of the Committee on Graduate Instruction by the instructor in charge of

the major work as early as the first of February of the college year in which the applicant expects to take the degree.

6. The thesis must be put into the hands of the Secretary of the Committee on Graduate Instruction as early as the first of June of that year, and in its final form, printed or legibly written according to a form prescribed by the College Librarian, must be filed at the Library at least three days before Commencement.

7. Every non-resident candidate must send a written report of the progress of his work to this Committee through the head of the department in which he is pursuing his studies, at least twice a year, in December and in June.

Any non-resident candidate who shall fail to make such report for a period of two years shall be deemed thereby to have ceased to be a candidate for the degree for which he was enrolled.

EXAMINATIONS

8. A candidate for the Master's Degree, whose thesis has been approved, may present himself for examination in his major subject at such time after June first of the year in which he shall be entitled to examination as shall be appointed by the instructor who has charge of his major subject, in consultation with the appropriate Division of the Faculty.

9. By special permission of the Committee on Graduate Instruction a candidate may present himself for examination before the presentation of his thesis. In this case the department may require a further examination on the subject matter of the thesis at the time of presentation. The deferred thesis must be presented within two years after the time of examination.

10. Notice of the time and place of all examinations for the Master's Degree shall be publicly posted by the Division Secretary. The examinations shall be conducted by the Division Faculty, and the result of their examination, together with their verdict upon the thesis, shall be certified by the Division Secretary to the Committee on Graduate Instruction.

11. The Committee on Graduate Instruction, together with the Division Faculties immediately concerned, shall make recommendations to the Faculty as to the acceptance or rejection of candidates for the Master's Degree.

PRIZES, HONORS, AND DEGREES AWARDED IN 1908

PRIZES

Grimes — English Composition — Seniors

First Prize — Fred Hudson Hodgson.
Second Prize — Lawrence Adler.

Lockwood — English Composition — Juniors

First Prize — No award.
Second Prize — No award.

Note-Book Prizes — Seniors and Juniors

First Prize — Fred Hudson Hodgson.
Second Prize — No award.
Third Prize — No award.

Rollins — Oratory — Juniors, Sophomores, Freshmen

First Prize — William Henry Pearse.
Second Prize — Ralph Lauris Theller.
Third Prize — Maurice Cary Blake.

Smith — Extemporaneous Debate — Seniors

First Prize — William Frye English, Jr.
Second Prize — Arthur Leon Lewis.

Lockwood — Debating — Candidates for Varsity Debating Teams

First Prize — RALPH LAURIS THELLER.
Second Prize — WARREN CHOATE SHAW.

Class of 1866 — Original Orations — Juniors, Sophomores

First Prize — RALPH LAURIS THELLER.
Second Prize — CLARKE WALWORTH TOBIN.

Barge Gold Medal — Original Orations — Seniors

ARTHUR LEON LEWIS.

Class of 1846 — Latin — Juniors

First Prize — CHARLES WALLINGFORD CARTLAND.
Second Prize — GEORGE HENRY DWENGER.

Atherton — Greek — Juniors

First Prize — CHARLES WALLINGFORD CARTLAND.
Second Prize — LINDLEY RICHARD DEAN.

Thayer — Mathematics — Sophomores

First Prize — HAROLD EUGENE WINCHESTER.
Second Prize — EDWARD HILDRETH LOVELAND.

Pray — Modern Languages — Seniors

French — ALBERT RICHARD CHANDLER.
German — ALBERT RICHARD CHANDLER.

Grimes — General Improvement — Seniors

DONALD YERDON FROTHINGHAM.

Spalding — Mechanical Drawing — Juniors (Scientific Course)

First Prize — ROBERT RUTLEDGE GOULD.
Second Prize — WINTHROP LAMSON SMITH.

Story — Philosophy — Seniors

ALBERT RICHARD CHANDLER.

Warren — Prize Scholarship — Seniors

PAUL MASON BATCHELDER.

Woodbury — Law Scholarships — Seniors

MASON AVERY LEWIS.
JOHN SIDNEY PATTON, Jr.

HONORS

HENRY ELIJAH PARKER FELLOWSHIP

Class of 1906 — Francis Lane Childs.

RUFUS CHOATE SCHOLARS

SENIORS — Paul Mason Batchelder, Albert Richard Chandler, Edwin Woodbridge Darling.

JUNIORS — Charles Wallingford Cartland, Arthur Leslie Graves.

SOPHOMORES — None.

FRESHMAN — Carroll Raymond Ward.

SPECIAL HONORS

SENIORS

PHYSICS — Paul Mason Batchelder.

HONORS

SENIORS

FRENCH — Albert Richard Chandler.

GERMAN — Albert Richard Chandler, Joseph King Knight, Jr.

JUNIORS

CHEMISTRY — Arthur Gordon Weinz.

HONORABLE MENTION

SENIORS

GERMAN — Raymond Warren Sherburne.

CHEMISTRY — Edward Payson Bartlett, Paul Mason Batchelder.

JUNIORS

GERMAN — Charles Wadleigh Pearson.

ZOÖLOGY — Sanford Berton Hooker, Clarence Eugene Dunbar.

SOPHOMORES

GREEK — Noah Sylvester Foss.

ENGLISH — Warren Choate Shaw.

GERMAN — Noah Sylvester Foss, Leon Buell Kendall, Charles Lewis Levermore.

GRAPHICS — Walter Alfred Phelps, Osborne Harris Shenstone, Harry Artemas Wells.

PHYSICS — Walter Alfred Phelps.

DEGREES CONFERRED IN COURSE

BACHELORS OF ARTS

Adler, Lawrence
Alden, Alanson Gilbert
Barnes, Arthur Bradley
Bartlett, Edward Payson
* Batchelder, Paul Mason
Bennett, Charles Greenleaf
Blake, Francis Gilman
Blanpied, David Robert
Blood, Arthur Kimball
* Chandler, Albert Richard
Chedel, Robert Whitcomb
Chesley, Roland Edward
Clark, John Alexander
Comstock, Donald Laird
Corcoran, John William
Cowee, Howard Wyman
Crowley, Ralph Elmer
Currier, Ralph Prescott
Darling, Edwin Woodbridge
DeAngelis, Charles LeMoyne
Detlefsen, John
Elwell, George William
Emery, Henry Stowell
English, William Frye, Jr.
Evans, Webster Brewer
Everett, John Stephen
Farrington, Edward Chipman
Fiske, Eben Winslow
Forsaith, William Francis
Frame, Roscoe George
Frothingham, Donald Yerdon
Gleason, Percy Elhanan
Greenwood, Lester Clyde
Hanson, Fred Ernest
Hazen, Edwin Humphrey
Hinman, John Holmes
Hoar, Crosby Arthur
Hobart, Harold Sawtelle
Howe, Luther Maxwell
Irish, Stacey Burton
Jordan, Thomas Eugene
Joyce, Harold Winslow
Kennedy, Harry Bean
† Knight, Joseph King, Jr.
Knight, William D
Knox, Benjamin Clement
Lee, William Leran
Lewis, Mason Avery
Lewis, Morton Lee
Lowe, Porter Webber
Lunt, Joseph Richard
McAllister, Thomas Savory
McCarty, Peter Florence
McElwain, John Hazen
MacMillan, Arthur Douglas
Mann, Scott Whitcher
Merrill, Richard Brackett
Miller, William Alexander
Mitchell, Herbert Hamilton
Nichols, Andrew Leach
Nichols, Chester Warren
Norton, John Aloysius
Nute, Stanley Pearl
Oakford, Edward Lines
O'Shea, Arthur Dennis
Parkinson, Dana

* Summa cum laude.

† Cum laude

Patton, John Sidney, Jr.
Pease, Ralph Southworth
Peebles, Richard Rogers
Perkins, Allen Moore
Prentice, Eugene Miles
Priest, Frederick Franklin
Richardson, Joseph Leland
Riley, Cornelius Augustine
Robinson, Francis Asbury
Ross, Carl Wilbur
Royce, Clayton Elbert
Rugg, Robert Billings
Ruggles, Sidney Lee
Sanborn, Benjamin Eugene, Jr.
Severence, Charles Conant
Sherburne, Raymond Warren
Shipley, George Elliott
Sides, Arthur Clement
Stuart, Arthur Thompson
Symmes, Laurence Metcalf
Tappan, Stanford Davis
Tenney, Allan Gray
Thompson, John William
Thompson, Robert Fears
Thorpe, Burton Durrell
Tufts (Flanagan), Joseph Anthony
Vaitses, Paul Stevens
Vietor, August Frederick
Whipple, Howard Franklin
White, Edgar Fowler
Wyman, Arthur Merriam

Ainsworth, Fred Crayton, 1873
Pearson, Fisher Hildreth, 1888
Gilbert, Oscar Bowen, 1905
Currier, Leon Levy, 1907

BACHELORS OF SCIENCE

Amidon, Luey Earle Cleveland
Anderson, Arthur Theodore
Anderson, Frank William
Badger, Erastus Beethoven, 2d
Beckett, Bertram
Bills, Clinton Edward
Blakeley, Joseph Wing
Blanchard, Gordon
Blodgett, Guy Cleveland
Bright, George Adams
Carns, Raymond Ledden
Carter, Royal Parkinson
Clark, Harold Charles
Cogswell, Harold Bickford
Cook, Frank Gordon
Cooper, Fred Allen
Copeland, Fred Osmore
Cushman, Oliver Wesley
Danforth, Richard Stevens
Donahue, Joseph Joyce
Dunham, Jasper Sprague
Dunn, Theodore Ira
Eberly, Arthur Allen
English, Frederick Kent
English, Harold Lewis
Foote, Warren Cleveland
Glaze, John Baldwin
Gray, John Harvey
Greeley, Eliphalet Austin
Griffin, Thomas Jerome
Griffin, Winthrop Austin
Griswold, Laurence Wakeman

Gustafson, Gustaf James
Hale, Warren Freeman
Harding, Jesse
Hazen, Ralph William
Hill, Roger Frank
Hodgson, Fred Hudson
Huebener, Curtis Edward
Isaacson, Follett Israel
Keith, Roy Harmon
Lee, William Wallace, Jr.
Lewis, Arthur Leon
Libby, Joseph Ralph
Lincoln, Ernest Avery
Locke, Isaac Beauchamp
McCarthy, John Daly
Marsden, Raymond Robb
Marsh, Raymond Eugene
Marshall, Lee Woodbury
Melville, Chester Warren
Morey, Harold Arthur
Morissey, Thomas Paul
Mower, Earl Alfred
Munkelt, Frederick Herman
Norton, James Jackson
Ordway, Fred Dickey
Parker, Raymond Brewer
Proctor, James Sullivan
Rich, Walter Clarence
Rogers, Harry Knox
Rotch, Arthur Boylston
Rugg, Harold Ordway
Rutherford, Alva Bruce
Rutherford, Seymour Suffee
Ruxton, Douglas Donald
Safford, Charles Noah
Schilling, Frederick Edward
Shaw, Arthur Briggs
Sherburne, Ralph Holmes
Smallman, Edwin Watson
Smith, Porter MacDougal
Soule, Arthur Turner
Speare, Alden True
Squier, George Edwin
Stearns, Malcolm
Stickney, Park Washburn
Stone, Henry Lewis
Tarbell, John Appleton
Tatterson, John Morris
Thompson, Philip Laforrest
Treadway, Lauris Goldsmith
Wheeldon, Albert James
Winkley, Willard Choate
Winslow, Elisha Freeman
Wood, Charles Albert
Woodman, William Hidden
Worcester, William Warner
Wright, Russell Burleigh

Coman, Seymour, 1873
Merrill, Guy Rindge, 1907

MASTERS OF ARTS

Adams, Franklin Launcelot, A.B. (1900) Boston University
Bowlby, Noble Oscar, A.B. (1906)
Chase, Harry Woodburn, A.B. (1904)

Fletcher, Walter Holden, A.B. (1900)
Heald, Franklin Ernest, B.S. (1897)
Heyhoe, Albert George, A.B. (1906)
Kelley, Arthur Olin, A.B. (1906)

DOCTOR OF PHILOSOPHY

Griggs, Leland, A.B. (1902)

MASTERS OF COMMERCIAL SCIENCE

Barker, Edward Bell, A.B.
Gerry, Louis Cardell, A.B.
Haley, Harry Thomas, B.S.
Hoyt, George Herbert, A.B.
Jordan, John Harold, A.B.
Minsch, William Joseph, A.B.
Romayne, Harrie Carlyle, A.B.
Stevens, Albert Emery, A.B.
White, Warner Goodrich, A.B.

CIVIL ENGINEERS

Bartlett, Samuel Colcord, A.B.
Brown, Ray Wilbur, B.S.
Davis, Nathaniel Francis, B.S.
Dunlap, John Hoffman, A.B.
Ela, Arthur John, B.S.
Garvin, Samuel Francis, B.S.
Gray, Harry Mott, B.S.
Greenleaf, Fred Bacon, B.S.
Hayes, Reuben, B.S.
Mullins, Roy, B.S.
Parker, Harold, B.S.
Peck, Russell Hastings, B.S.
Pierce, Henry Tyler
Tinker, Frank Nelson, B.S.
Welch, Frederick William, B.S.

DOCTORS OF MEDICINE

Crittendon, George Alanson
Gane, William Howard
Gilbert, Oscar Bowen, A.B.
Giles, Raymond Larkin
Howland, Clifford
Kenney, John Joseph
Knox, Howard Andrew
Loder, Halsey Beach, B.S.
Quigley, William Sullivan

HONORARY DEGREES

MASTERS OF ARTS

Otis Grant Hammond
Charles Henry Jones
Howard Nelson Kingsford, M.D., 1898

DOCTORS OF DIVINITY

John Henry Allen, 1870
Thomas Chalmers (Harvard, 1891)
Newton Marshall Hall, 1888

DOCTOR OF SCIENCE

Charles Jeptha Hill Woodbury

DOCTORS OF LAWS

Harry Augustus Garfield (Williams, 1885)
Charles Merrill Hough, 1879
John King Lord, 1868
Eugene Wambaugh (Harvard, 1876)

MEDICAL SCHOOL

CALENDAR

1908

August 4 . . . . Third and Fourth Year Courses began.
September 24 . . . First and Second Year Courses began.

Recess from December 23, 10 A.M., to January 6, inclusive.

1909

March 26 . . . . Third and Fourth Year Courses end.
Examinations by Delegates.
Graduating Exercises.

Recess from April 1, 10 A.M., to April 14, inclusive.

June 30 . . . . . First and Second Year Courses end.
August 3 . . . . Third and Fourth Year Courses begin.
September 23 . . . First and Second Year Courses begin.

OFFICE HOURS

DEAN — William Thayer Smith — 9 School St., 1.30 P.M. and 7 P.M. daily.

GENERAL STATEMENT

Dartmouth Medical School was established by the Trustees of Dartmouth College in 1798, and it has graduated classes each year since that date. Its association with Dartmouth College, its location, its hospital privileges, afford an opportunity for laying a solid foundation in the sciences on which a successful career in the medical profession may rest.

ADMISSION

There will be a change in the requirements for admission in and after 1910 (see page 242). For the year 1909–1910 they will be as follows:

(1) A diploma from an approved college, or

(2) A diploma from a registered academy or high school, or

(3) Evidence of a preliminary education considered and accepted as fully equivalent.

Applicants having these credentials will be received without examination, provided the requirements in Latin, Chemistry, and Physics specified below, have been met.

All other candidates for admission, unless they can show by certificate from some approved fitting school or college that they have passed examinations in a part of the requirements, will be examined in all the following subjects:

English, History I or II, Mathematics, Latin, Chemistry, and Physics, according to specifications given below.

SUBJECTS WITH SPECIFICATIONS

ENGLISH —

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation.

English Gammar. — To secure the first end, training in grammar and the simpler principles of rhetoric, and the writing of frequent

compositions are essential. The candidate must be able to spell, capitalize, and punctuate correctly. He must show a practical knowledge of the essentials of English grammar, including ordinary grammatical terminology, inflections, syntax, the use of phrases and clauses; a thorough training in the construction of the sentence; and familiarity with the simpler principles of paragraph division and structure.

Reading. — To secure the second end, the reading of a certain number of books is prescribed. The list is intended to give the candidate the opportunity of reading, under intelligent direction, a number of important pieces of literature. The prescribed books are divided into two groups as follows:

A

The candidate should read the books prescribed below with a view to understanding and enjoying them. He will be expected to show a reasonable degree of familiarity with their substance. The form of examination will usually be the writing of paragraphs on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper.

For students entering in 1909:[1] Shakespeare's *The Merchant of Venice* and *Julius Cæsar;* Bunyan's *The Pilgrim's Progress* (part I); the *Sir Roger de Coverly Papers* in the *Spectator;* Scott's *The Lady of the Lake* and *Ivanhoe;* Irving's *Sketch Book;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* George Eliot's *Silas Marner.*

For Students entering in 1910 and 1911:[1] Shakespeare's *The Merchant of Venice;* the *Sir Roger de Coverly Papers* in the *Spectator;* Franklin's *Autobiography;* Scott's *The Lady of the Lake and Ivanhoe;* Hawthorne's *The House of the Seven Gables;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Dickens' *A Tale of Two Cities.*

For Students entering in 1912:[1] Shakespeare's *As You Like It* and

[1] The lists for the classes entering in 1909, 1910, 1911, and 1912 are selected from the lists adopted by the Conference on Uniform Entrance Requirements in English, at meetings held in New York City on February 22, 1905, and February 22, 1908. Candidates may present other selections from that list, provided they notify the Dean, on or before the first day of February preceding the examination, of the substitutions they wish to make.

Julius Cæsar; Franklin's *Autobiography;* Goldsmith's *The Deserted Village;* Dickens' *A Tale of Two Cities;* George Eliot's *Silas Marner;* Irving's *Sketch Book;* Scott's *The Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Macaulay's *Lays of Ancient Rome.*

B

The candidate should read the books prescribed below with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination is not designed, however, to require minute drill in difficulties of verbal expressions, unimportant allusions, and technical details.

For Students entering in 1909, 1910, 1911: Shakespeare's *Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

For Students entering in 1912: Shakespeare's *Macbeth;* Milton's *Comus, L'Allegro,* and *Il Penseroso,* or Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

HISTORY (including Historical Geography) —

Either of the two following courses:

I. *Ancient History.* — This may cover the general field to 800 A.D.; but must in any case cover at least Greek History to the death of Alexander, with due reference to Greek life, literature, and art, and Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History.* — English History with due reference to social and political development; American History with the elements of Civil Government.

In each of the above courses the following requirements must be met: (1) at least three recitations per week for two years, or five recitations per week for one year; (2) such general knowledge of the whole course as may be required from the study of accurate text-

books amounting to not less than 600 pages; (3) a full knowledge derived from suitable additional reading, in books of a less elementary nature, amounting to at least 600 pages; (4) comparisons between historical characters, periods and events, and in general the power to combine in orderly fashion the results of reading, and to exercise the judgment as well as the memory; (5) geographical knowledge tested by the location of places, movements, and territorial changes on an outline map (by physical features wherever possible as well as by political features).

MATHEMATICS —

Algebra.— The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry.— With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

LATIN —

The ability to translate at sight easy Latin prose.

This is the equivalent of a two years' course in an approved High School.

CHEMISTRY —

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, or equivalent. A certified note-book of laboratory work must be presented. The student should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrat-

ing the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

NOTE. — Certification of note-book must be careful enough to identify the work as done by the student. Certification on the cover or on a single leaf of a loose note-book will not be accepted. Each loose leaf should be signed by the student and stamped or otherwise identified by the instructor.

PHYSICS —

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. This note-book should bear the certification of the instructor, and be presented for inspection at the time of the entrance examinations to the School.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

Any one of the following texts or manuals may be recommended for use in secondary schools preparing students for the Medical School: Elements of Physics, Carhart and Chute; Elements of Physics, Crew; A Text-Book of Physics, Hall and Bergen; Outlines of Physics, Nichols; Elements of Physics, Gage.

A student who has had Physics 1 and 2 in Dartmouth College or its equivalent will be admitted without condition in Physics.

The examinations for admission to the First or entering Class will be held in the Tuck Building, as follows:

Chemistry	1.30–3.30 P. M.,	Sept.	17
Algebra	4.00–6.00 P. M.	"	17
Latin	8.00–10.00 A. M.	"	18
English	1.30–3.30 P. M.	"	18
Geometry	4.00–6.00 P. M.	"	18
History II	8.00–10.00 A. M.	"	20
History I	1.30–3.30 P. M.	"	21
Physics	4.00–6.00 P. M.	"	21

Each candidate taking an examination in Chemistry or Physics must present a laboratory note-book certified by his teacher.

ADVANCED STANDING

Applicants for advanced standing must bring official evidence of time spent in Medical Schools of laboratory work equivalent to that required in this School, and must pass examinations in the subjects in which the class which they wish to enter has been examined. Examinations taken elsewhere are not accepted.

REQUIREMENTS FOR ADMISSION IN AND AFTER 1910

(1) A diploma from an approved college, or

(2) The work of two years in an approved college, or

(3) Evidence of a preliminary education considered and accepted as fully equivalent.

All applicants must present at least one year each of Chemistry, Biology, and Physics, and must be able to translate at sight easy Latin prose.

COMBINED COURSES

Beginning with 1910 candidates for the B.S. degree in the academic department of Dartmouth College may, at the opening of their junior year, matriculate in the Medical School, and take during their junior and senior years the work and the examinations of the first two years of the Medical School. They will thus be able to earn the degree of B.S. in four years and the degree of M.D. in six years.

Applicants who have completed two years in any approved college can, if they meet the requirements for admission to the Junior year in Dartmouth College and present the required work in Latin, Chemistry, Biology, and Physics, matriculate in the Medical School and earn the degree of B.S. in four years and the degree of M.D. in six years.

Students in Dartmouth College who are intending to earn the two degrees in six years are recommended to take the following courses:

FRESHMAN YEAR.

English 1 and 2, Biology 1 and 2, Mathematics 1 and 2 (or Physics 1 and 2 if Mathemtics II was presented for admission), Physical Education 1, 2, and choose any two of the following languages: Latin 1 and 2, French 1, 2, or 3, 4, or 5, 6, or German 1, 2, or 3, 4, or 5, 6.

SOPHOMORE YEAR.

Chemistry 3 and 4, Biology 5 and 4, Physics 1, 2, or 3, 4, History 1 and 2, and continue one of the following languages: French 3, 4, or 5, 6, or 7, 8, or 11, 12, or German 3, 4, or 5, 6, or 7, 8.

JUNIOR YEAR (First Year in Medicine).

Chemistry 5 and 6, or 7 and 8, Biology 9 and 10, Physiology 1 and 2, Anatomy 1 and 2, Histology 1 and 2, with Economics 1 and 2, or Sociology 1 and 2, or Philosophy 1 and 2.

SENIOR YEAR (Second Year in Medicine).

Chemistry (Physiological and Medical), Physiology 3 and 4, Anatomy 3 and 4, Bacteriology 1 and 2, Materia Medica, Pathology, Dissection, with Economics 3 and 4, or Sociology 3 and 4, or Philosophy 3 and 4.

Candidates for the A.B. degree can as heretofore matriculate in the Medical School at the beginning of senior year provided they present the requirements in Chemistry, Biology, and Physics. They can thus earn the degree of A.B. in four years and the degree of M.D. in seven years.

For students who desire to take a preparatory course for the Medical School but do not expect to earn a degree from Dartmouth College, the Trustees offer the following two years' course:

English 1, 2, Mathematics 1, 2 (or Physics 1, 2 if Mathematics II

was presented for admission), Physics 1, 2, or 3, 4, Chemistry 3, 4, Biology 1, 2, 4, 5, Physical Education 1, 2, History 1, 2, and four of the following courses in French: French 1, 2, or 3, 4, or 5, 6, or 7, 8, or 11, 12, and four of the following courses in German: German 1, 2, or 3, 4, or 5, 6, or 7, 8, making a total of 62 semester hours for the two years.

Students desiring to pass from the Academic Department of the College to the Medical School must bring the certificate of the President of the College, with his approval of such transfer.

COURSE OF STUDY

The One Hundred and Thirteenth Annual Course will be opened on Tuesday, the third day of August, 1909.

For the third and fourth classes, the session beginning August 3, 1909, continues to March 25, 1910. For the first and second classes, the session beginning September 23, 1909, continues nine months to June 29, 1910.

The teaching is by lectures, recitations, laboratory work, and clinics, Students of the third and fourth classes are kept in close touch with hospital work and have daily bedside instruction.

The course covers four years with examinations on each year's work at its conclusion. These examinations, if satisfactory, will stand as final. At the end of the course an oral examination is held by delegates from the Medical Societies of New Hampshire and Vermont.

FIRST YEAR

Chemistry, Biology, Comparative Anatomy, Human Histology, Human Anatomy, Physiology.

SECOND YEAR

Systematic Anatomy, Physiology, Medical Chemistry, Pathology, Embryology, Bacteriology, Materia Medica, Analysis of blood and urine.

THIRD YEAR

Regional Anatomy, Pathology, Obstetrics, Surgery, Medicine, Therapeutics, Physical and Differential Diagnosis, Gynecology, Mental Diseases, Legal Medicine, Ophthalmology, Dermatology, Laryngology, Otology.

FOURTH YEAR

Therapeutics, Surgery, Medicine, Obstetrics, Gynecology, Mental Diseases, Legal Medicine, Hygiene, Ophthalmology, Laryngology, Otology, Dermatology.

SCHEDULE, 1908-1909

FIRST YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
A.M.						
8	Chemistry or Histology. Dr. Bolser or Dr. Graham.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.		Physiology. Lectures and Demonstrations. Dr. Stewart.	Chemistry or Histology. Dr. Bolser or Dr. Graham.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.
9						
10	Histology or Chemistry. Dr. Graham or Dr. Bolser.	Chemistry. Laboratory. Dr. Bolser.	Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr. P. Bartlett.	Histology or Chemistry. Dr. Graham or Dr. Bolser.	Chemistry. Laboratory. Dr. Bolser.
11			Physiology. Lecture and Demonstration. Dr. Stewart.			
P.M.						
1	Biology. Laboratory. Mr. Chivers.	Bacteriology. Laboratory. Dr. Graham.		Bacteriology. Laboratory. Dr. Graham.	Biology. Laboratory. Mr. Chivers.	Bacteriology. Laboratory. Dr. Graham.
2						

FIRST YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
	Physiology. Lectures and Demonstrations. Dr. Stewart.	Chemistry or Histology. Dr. Bolser or Dr. Graham.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.		Physiology. Lectures and Demonstrations. Dr. Stewart.
Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr. P. Bartlett.	Histology or Chemistry. Dr. Graham or Dr. Bolser.	Chemistry. Laboratory. Dr. Bolser.	Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr P. Bartlett.
Physiology. Lecture and Demonstration. Dr. Stewart.				Physiology. Lecture and Demonstration. Dr. Stewart.	
	Bacteriology. Recitation. Dr. Graham.	Biology. Laboratory. Mr. Chivers.			

SECOND YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
A.M. 8	Physiology. Laboratory. Dr. Stewart.		Embryology. Laboratory. Dr. Patten.	Pathology. Lecture or Recitation. Dr. Kingsford.	Physiology. Laboratory. Dr. Stewart.	
9				Materia Medica. Recitation. Dr. P. Bartlett.		
10	Anatomy. Recitation. Dr. P. Bartlett.		Pathology. Laboratory. Dr. Kingsford.		Anatomy. Recitation. Dr. P. Bartlett.	
11	Pathology. Lecture or Recitation. Dr. Kingsford.				Pathology Lecture or Recitation. Dr. Kingsford.	
P.M. 1	Analysis of Blood. Dr. Kingsford — To Nov. 1. Dissection. Dr. P. Bartlett. Nov. 1 — Apr. 1.		Medical Chemistry. Laboratory. Dr. E. J. Bartlett.		Dissection. Laboratory. Dr. P. Bartlett.	
2	Analysis of Urine. Dr. Kingsford. Apr. 1 — June 18.					

SECOND YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
Embryology. Laboratory. Dr. Patten.	Pathology. Lecture or Recitation. Dr. Kingsford.	Physiology. Laboratory. Dr. Stewart.		Embryology. Laboratory. Dr. Patten.	Pathology. Lecture or Recitation. Dr. Kingsford.
	Materia Medica. Recitation. Dr. P. Bartlett.				Materia Medica. Recitation. Dr. P. Bartlett.
Pathology. Laboratory. Dr. Kingsford.		Anatomy. Recitation. Dr. P. Bartlett.		Pathology. Laboratory. Dr. Kingsford.	
		Medical Chemistry. Recitation. Dr. E. J. Bartlett.			
Medical Chemistry. Laboratory. Dr. E. J. Bartlett.		Analysis of Blood. Dr. Kingsford — To Nov. 1. Dissection. Dr. P. Bartlett. Nov. 1 — Apr. 1. Analysis of Urine. Dr. Kingsford. Apr. 1 — June 18.			

THIRD YEAR

Hour.	MONDAY. Aug. 4 to Sept. 17.	MONDAY. Sept. 17 to Mar. 20.	TUESDAY. Aug. 4 to Sept. 17.	TUESDAY. Sept 17 to Mar. 20.	WEDNESDAY. Aug. 4 to Sept. 17.	WEDNESDAY. Sept. 17 to Mar. 20.
A.M. 8	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.
9	Surgery. Lecture. Dr. deNancrède.	Anatomy. Recitation. Dr. Frost.	Surgery. Lecture. Dr. deNancrède.		Surgery. Lecture. Dr. deNancrède.	Anatomy. Recitation. Dr. Frost.
10	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.
11	Surgery. Lecture. Dr. deNancrède.	Medical Clinic. Dr. Frost.	Surgery. Lecture. Dr. deNancrède.	Minor Surgery. Dr. P. Bartlett.	Surgery. Lecture. Dr. deNancrède.	Medical Clinic. Dr. Gile.
P.M.	Lecture.	Lecture.				Pathology. Demonstration. Dr. Kingsford.
1.30 to 2.30	Otolaryngology. Dr. Leland. Aug. 4 to Aug. 17. Ophthalmology. Dr. Standish. Aug. 17 to Sept. 2. Dermatology. Dr. Towle. Sept. 3 to Sept. 17. Gynecology. Dr. Goffe. Sept. 13 to Sept. 27.	Obstetrics. Dr. Polak. Sept. 25 to Oct. 13. Mental Disease. Dr. Cowles. Sept. 18 to Oct. 1. Legal Medicine. Dr. Magrath. Hygiene. Dr. Conn.	Same as Monday.		Same as Monday.	
2.30 to 4.30	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.	Surgical Clinic. Dr. deNancrède.	Dissection. Laboratory. Dr. P. Bartlett.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.

THIRD YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.
Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.
Surgery. Lecture. Dr. de Nancrède.	Obstetrics. Recitation. Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Anatomy. Recitation. Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Obstetrics. Recitation. Dr. Frost.
Therapeutics. Lecture. Dr. Balliet.	Gynecology. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.
Surgery. Lecture. Dr. de Nancrède.	Minor Surgery. Dr. P. Bartlett.	Surgery. Lecture. Dr. de Nancrède.	Medical Clinic. Dr. Frost or Dr. Gile.	Surgery. Lecture. Dr. de Nancrède.	Minor Surgery. Dr. P. Bartlett.
Same as Monday.		Same as Monday.			
Surgical Clinic. Dr. de Nancrède.	Dissection. Laboratory. Dr. P. Bartlett.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.		

FOURTH YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.
A.M. 8	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.
9	Surgery. Lecture. Dr. de Nancrède.	Surgery. Recitation. Dr. Smith.	Surgery. Lecture. Dr. de Nancrède.	Diseases of Children. Recitation. Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Surgery. Recitation. Dr. Smith.
10	Therapeutics. Lecture. Dr. Balliet.	Diseases of the Nervous System. Recitation. Dr. Frost.	Therapeutics. Lecture. Dr. Balliet.	Surgical Clinic.	Therapeutics. Lecture. Dr. Balliet.	Diseases of the Nervous System. Recitation. Dr. Frost.
11	Surgery. Lecture. Dr. de Nancrède.	Medical Clinic. Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Dr. Smith.	Surgery. Lecture. Dr. de Nancrède.	Medical Clinic. Dr. Gile.
P.M.	Lecture.	Lecture.				
1.30 to 2.30	Otolaryngology. Dr. Leland. Aug. 4 to Aug. 17. — Ophthalmology. Dr. Standish. Aug. 18 to Sept. 2. — Dermatology. Dr. Towle. Sept. 3 to Sept. 17. — Gynecology. Dr. Goffe. Sept. 13 to Sept. 27.	Obstetrics. Dr. Polak. Sept. 25 to Oct. 13. — Mental Disease. Dr. Cowles. Sept. 18 to Oct. 1. — Legal Medicine. Dr. Magrath. — Hygiene. Dr. Conn.	Same as Monday. Tropical Medicine. Dr. Wheeler.		Same as Monday.	
2.30 to 4.30	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in wards.	Surgical Clinic. Dr. de Nancrède.	Sections at Hospital for Clinical work in wards.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in wards.

FOURTH YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.	Aug. 4 to Sept. 17.	Sept. 17 to Mar. 20.
Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile
Surgery. Lecture. Dr. de Nancrède.	Obstetrics. Recitation. Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Surgery. Recitation. Dr. Smith.	Surgery. Lecture. Dr. de Nancrède.	Obstetrics. Recitation. Dr. Frost.
Therapeutics. Lecture. Dr. Balliet.	Gynecology. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diseases of Children. Recitation. Dr. Frost.	Therapeutics. Lecture. Dr. Balliet.	Surgical Clinic.
Surgery. Lecture. Dr. de Nancrède.	Gynecological Clinic. Dr. Gile.	Surgery. Lecture. Dr. de Nancrède.	Medical Clinic. Dr. Gile or Dr. Frost.	Surgery. Lecture. Dr. de Nancrède.	Dr. Smith.
Same as Monday.		Same as Monday.			
Surgical Clinic. Dr. de Nancrède.	Sections at Hospital for clinical work in wards.	Clinic by the Lecturer of the last hour.	Sections at Hospital for clinical work in wards.		

DEPARTMENTS OF INSTRUCTION

BIOLOGY AND COMPARATIVE ANATOMY

PROFESSOR PATTEN, MR. CHIVERS, AND DR. GRIGGS

FIRST YEAR

1. Elementary Biology. An introductory course giving a general survey of the field of Botany, some of the fundamental principles of Biology common to plants and animals, and a comprehensive review of the physiology, morphology, and reproduction of plants, special attention being paid to the lower plants and to the relation of fungi and bacteria to putrefaction, fermentation, and disease. One lecture and two laboratory exercises of two hours each per week. (Bergen and Davis, *Principles of Botany.*) First semester, fifty-four exercises.

MR. CHIVERS AND DR. GRIGGS.

2. Comparative Anatomy of Vertebrates. The outlines of the classification of Vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes, and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. Second semester, fifty-four two-hour exercises.

PROFESSOR PATTEN.

SECOND YEAR

3. Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, Heisler's *Embryology.*) First semester, fifty-four two-hour exercises.

PROFESSOR PATTEN.

ANATOMY

PROFESSOR FROST AND DR. P. BARTLETT.

FIRST YEAR

Osteology, Arthrology, and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. An opportunity is offered to follow the dissections of the human body made by the men of the Second and Third classes. The written examinations covering the work in Osteology and Arthrology are final if satisfactory. (Gray's *Anatomy*, last edition.) First and second semesters, one hundred and four exercises.

PROFESSOR FROST AND DR. P. BARTLETT.

SECOND YEAR

Study of the muscles, blood vessels, lymphatics, and nerves by systems and by regions. Recitations and occasional lectures. Demonstrations by the instructor from manikins, plates, dried and wet preparations, and the cadaver. Dissection and demonstration of at least two parts by each student to the class. (Gray, Gerrish.)

DR. P. BARTLETT

THIRD YEAR

Study of the central nervous system and the viscera. Regional and Applied Anatomy. Lectures, recitations, and demonstrations. Dissection and demonstration of the remaining parts by the student. (Gray, Treves, Quain.) PROFESSOR FROST.

PHYSIOLOGY

PROFESSOR C. C. STEWART

FIRST YEAR

1. A course of lectures, with demonstrations and occasional quizzes on the physiology of muscle and nerve, circulation, respiration, and animal heat. First semester, fifty-four exercises.

2. A continuation of Course 1, on the physiology of digestion, metabolism, secretion and excretion, the nervous system, and the special senses. Second semester, fifty-four exercises.

SECOND YEAR

3. The work of the second year will consist of laboratory exercises with demonstrations, recitations, and occasional lectures on the physiology of muscle and nerve, blood, circulation, respiration, and animal heat. A short experimental course on the physiological action of drugs is included. First semester, fifty-four exercises of two hours each.

4. A continuation of Course 3, taking up in the same way the physiology of digestion, metabolism, secretion and excretion, the nervous system, and the special senses.

The equipment of the laboratory provides a satisfactory set of apparatus for each two students. The set includes a clockwork kymograph, inductorium, moist chamber, recording and stimulating apparatus, tambours, circulation model, and many minor pieces; while for the work in chemical physiology a complete outfit of glassware, apparatus, and chemicals is provided. In addition to this the laboratory contains apparatus for demonstrations and for individual work or original investigation. Both the students' sets and the equipment of the general laboratory are being added to from time to time as the needs of the work direct.

THIRD YEAR

A course of twelve lectures on special subjects in advanced Physiology.

CHEMISTRY

PROFESSORS E. J. BARTLETT AND BOLSER, AND MR. RICHARDSON

FIRST YEAR

1. A systematic course, reviewing the Non-Metallic Elements rapidly, developing the more essential theories, and treating the Metallic Elements and their compounds, by lectures, recitations (Newth's *Inorganic Chemistry*), and by Qualitative Analysis in the

laboratory (Bolser and Richardson *Qualitative Analysis*). This course divides the time about equally between one-hour recitations and two-hour laboratory exercises. First and second semesters, fifty-four exercises in each, one or two hours.

PROFESSOR BOLSER AND MR. RICHARDSON

SECOND YEAR

2. (a) A short course in the more important compounds of carbon.

(b) Physiological and Medical Chemistry. A course with laboratory, lecture, and recitation work giving special attention to the carbohydrates and albumens, to Toxicology, the Chemistry of the body, and the applications of Chemistry to Medicine. First and second semesters. PROFESSOR BARTLETT.

HISTOLOGY, BACTERIOLOGY, AND PATHOLOGY

PROFESSOR KINGSFORD AND DR. GRAHAM

FIRST YEAR

1. Histology. Laboratory work with recitations. The elementary tissues are first studied, then the various organs, including special study of the brain and cord. Each student may prepare and retain sections.

Six hours in the laboratory each week, two hours' recitation.

This course extends through the first two-thirds of the year.

2. Bacteriology. Laboratory demonstrations supplemented by recitations. The aim in this course is to make it as practical as possible. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria, the technic of the Widal serum diagnosis in typhoid fever, and to staining gonorrhœal pus. Each student is required to isolate a number of different organisms. Special instruction is given to any student desirous of doing research work, either in bacteriology or pathology.

Four hours in the laboratory each week, two hours' recitation.

This course follows Histology and extends through the last third of the year.

As the Medical School affords accommodation to the State Laboratory of Bacteriology the supply of pathological and bacteriological

material accessible throughout the year is unusually large. Each student has an opportunity to act as voluntary assistant for a period of four weeks, and thus may obtain special training in the routine work of bacteriological examinations and technic and in general laboratory methods.

SECOND YEAR

3. Pathology. Six hours each week of laboratory work throughout the year. Lectures, three times each week, illustrated by demonstrations of gross lesions, two hours' recitation. The laboratory work is devoted to the study of the pathological histology of inflammation, the infectious diseases, tumors, etc. The sections may be prepared and retained by the student.

4. Haematology. Two lectures and one recitation, with two hours of laboratory work each week until November first. A course in the examination, preparation and staining of blood specimens, with special reference to clinical diagnosis. Both normal and pathological blood specimens are available for examination and study.

5. Urinary Examinations. Four hours of laboratory work and three hours of lectures and recitations each week from April first to June eighteenth. This course deals with the examination of normal and pathological urines, with special relation to the full study of urinary sediments. An abundance of material is available at all times.

THIRD YEAR

6. Pathology. One hour each week, taking up special subjects with demonstrations.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR BALLIET AND DR. P. BARTLETT.

SECOND YEAR

1. Materia Medica is taught by recitations three times each week in the second semester. DR. P. BARTLETT.

THIRD AND FOURTH YEARS

2. Therapeutics. A course of sixty lectures with frequent quizzes and illustrations by the study of clinical cases at the Hospital.

PROFESSOR BALLIET.

GYNECOLOGY

PROFESSOR GOFFE AND DR. GILE

THIRD AND FOURTH YEARS

1. A course of twenty-four lectures illustrated by diagrams, supplemented by clinical teaching at the Hospital. The students make examinations of the cases presented and follow the operations and after-treatment. PROFESSOR GOFFE.

2. Recitations once a week supplemented by further clinical instruction at the Hospital through the year. Clinical material is abundant.

DR. GILE.

OBSTETRICS

PROFESSOR POLAK AND DR. FROST

THIRD AND FOURTH YEARS

1. A course of fifteen lectures illustrated by diagrams and the use of manikins. PROFESSOR POLAK.

2. Recitations with section work upon manikins by the student, two hours each week. DR. FROST.

Preparation is thus secured for a course in the Out-patient department of a Lying-In Hospital which the student is advised to take during the vacation at the end of the third year. Evidence of attendance upon eight cases of confinement is required of candidates for the degree.

3. Maternity cases are received at the Hospital, and when possible they serve to illustrate to the students in small sections the teaching and methods of obstetrics.

SURGERY

PROFESSOR DE NANCRÈDE, PROFESSOR SMITH, AND DR. P. BARTLETT

THIRD YEAR

1. A course in Minor Surgery given partly at the College and partly at the Hospital. Demonstrations and quizzes. Three hours each week. DR. P. BARTLETT.

THIRD AND FOURTH YEARS

2. A course of seventy-two lectures supplemented by many clinical lectures and operations at the Hospital. The student is given cases to examine and study, and makes his report before the class.
PROFESSOR DE NANCRÈDE.

FOURTH YEAR

3. A course of recitations with further clinical lectures and study of individual cases by the student at the Hospital. Three hours each week. PROFESSOR SMITH.

OPHTHALMOLOGY

PROFESSOR STANDISH

A course of twelve didactic lectures with many clinical lectures and operations before the class. An excellent opportunity is afforded each student to study these cases.

LARYNGOLOGY AND OTOLOGY

PROFESSOR LELAND

A course of ten didactic lectures with clinical lectures and many operations before the class. Opportunity to study and follow the treatment of individual cases.

LEGAL MEDICINE

DOCTOR MAGRATH

A course of twelve didactic lectures, expounding the relations of Law to Medicine in the various departments of municipal government and medical practice.

MENTAL DISEASES

PROFESSOR COWLES

A course of twenty didactic lectures in two successive years, covering the following topics:

1. The principles of mental pathology and the nature of mental symptoms.
2. Mental physiology. Imperative ideas and psychological automatism.
3. Laws of the nervous and mental mechanism; the organic sensations in mental pathology; and the psychology and pathology of the emotions; the mental symptoms of nervous exhaustion.
4. Forms of mental diseases.

HYGIENE

PROFESSOR CONN

A course of nine didactic lectures, giving instruction in the principles of sanitation and hygiene as applied to daily life and to the practice of medicine and surgery.

DERMATOLOGY

PROFESSOR TOWLE

A Course of twenty-four didactic lectures in two successive years. It is intended to make this course a practical one with special attention to the most common diseases of the skin. The lectures will be illustrated by photographs and supplemented by clinical demonstration.

MEDICINE

PROFESSOR GILE AND DR. FROST

THIRD YEAR

1. Physical Diagnosis. Study of methods of examination and physical diagnosis, with enough of pathology to make the variations in the physical signs intelligible. About one-third of the course is given to lectures, one-third to recitations, and one-third to clinics. Five hours each week. PROFESSOR GILE.

2. Medicine. Lectures and recitations six hours each week. PROFESSOR GILE.

FOURTH YEAR

3. Medicine. Lectures and recitations with clinical examinations at the Hospital through the year. Six hours each week, with one or two hours additional each week of clinical examination at the Hospital. PROFESSOR GILE.

4. Diseases of children. Two recitations and one hour of clinical work each week. DR. FROST.

5. Diseases of the Nervous System. Two recitations and one hour of clinical work each week. DR. FROST.

TEXT-BOOKS

ANATOMY — Gray, Gerrish, Quain, Treves.
BACTERIOLOGY — Williams, McFarland, Crookshank.
BIOLOGY — Bergen and Davis, Principles of Botany.
CHEMISTRY — Bartlett's Laboratory Exercises, Newth's Chemistry, Bolser and Richardson's Qualitative Analysis, Holland's Medical Chemistry, Rockwood's Laboratory Manual.
COMPARATIVE ANATOMY — Parker and Haswell.
DERMATOLOGY — Stelwagon, Pusey, Jackson, Van Harlingen.
DICTIONARY — Gould, Duane, Dorland.
DISEASES OF CHILDREN — Holt.
EMBRYOLOGY — Heisler.
GYNECOLOGY — Dudley, Bovée, Penrose.
HAEMATOLOGY — Cabot.
HISTOLOGY — Bailey, Stöhr.
LEGAL MEDICINE — Witthaus and Becker, Draper.
OBSTETRICS — Williams, Jewett, Webster.
OTOLARYNGOLOGY — Kyle, Diseases of Nose and Throat; Williams, Diseases of Upper Respiratory Tract; Hovell, Diseases of Ear, Lake, Diseases of Ear; Richards, Nose and Throat; Saunders, Medical Hand Atlases: Gründewald, Diseases of the Larynx; Brühl and Politzer, Diseases of Ear.
PATHOLOGY — Delafield and Prudden, Ziegler.
PHYSICAL DIAGNOSIS — Cabot, Anders, Butler's Diagnostics.
PHYSIOLOGY — Brubaker, Howell, Landois, Schäfer.
PRACTICE OF MEDICINE — Osler, Anders, Tyson.
SURGERY — de Nancrède, American Text-book of Surgery, Da Costa, Park, Warren, Foote.
THERAPEUTICS — Wood, Hare, Cushing and Wilcox on Materia Medica and Pharmacy.
MENTAL DISEASES — Morat, Physiology of the Nervous System; Sherrington, The Integrative Action of the Nervous System; McDougall, Physiological Psychology; Kraepelin, Clinical Psychiatry; De Freesac, Psychiatry.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this School examinations will be required in Biology, Human Histology and Anatomy, Physiology, Chemistry, and Bacteriology. At the end of two full years of the study of medicine and two courses of lectures, an examination will be required in Systematic Anatomy, Physiology, Medical Chemistry, Embryology, Materia Medica, and Pathology. At the end of three full years of the study of medicine and three courses of lectures, an examination will be required in Systematic and Regional Anatomy, Physical Diagnosis, Therapeutics, Minor Surgery, and Obstetrics.

Certificates of Examinations passed at other Colleges are not accepted in place of our own examinations for a degree.

Every candidate for the degree of Doctor of Medicine must (1) be more than twenty-one years of age; (2) be of good moral character; (3) have graduated from a registered College or satisfactorily completed a full course in a registered academy or high school; or have had a preliminary education considered and accepted as fully equivalent; (4) have studied medicine not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, of which the last must be taken at this school, in four different calendar years, in a medical college registered as maintaining at the time a satisfactory standard; (5) present evidence that he has dissected all parts of the cadaver; (6) present evidence of attendance upon eight cases of confinement; (7) pass a satisfactory examination in Biology, Histology, Anatomy, Physiology, Chemistry, Bacteriology, Embryology, Materia Medica, Pathology, Physical Diagnosis, Therapeutics, Obstetrics, Gynecology, Surgery, Ophthalmology, Otology and Laryngology, Practice of Medicine, Mental Diseases, Dermatology, and Legal Medicine.

Final (oral) examinations before Delegates from the New Hampshire and Vermont Medical Societies will be held on March 26, 1909.

EXPENSES

Tuition is to be paid in two equal installments on October first and March first. Laboratory fees must be paid to the Treasurer at the beginning of each Semester.

MATRICULATION — Paid once on entering	$5.00
TUITION — For each of the four courses	100.00
Chemicals and ordinary breakage, First year	6.00
Second year	5.00
Bacteriology and Histology. Material, First year	6.00
Pathology. Material, Second year	5.00
Biology and Comparative Anatomy. Material, First year	6.00
Embryology. Material, Second year	3.00
Physiology. Material, Second year, First semester	5.00
Second year, Second semester	4.00
Anatomy. Material	at cost
Room Rent	30.00 to 100.00
Board, per week	3.00 to 5.00
Text-books	10.00 to 20.00
Washing	10.00 to 30.00

HOSPITAL

The MARY HITCHCOCK MEMORIAL HOSPITAL, a cottage hospital of thirty-six beds and a model in construction, furnishes clinical material and the opportunity to learn the methods of the most advanced hospital work.

In operating rooms with modern appointments the student has a close view of a large number of operations in general surgery and gynecology and of special operations upon the eye, ear, throat, and nose. He is able to follow these cases and note the after-treatment and results. The clinics are carefully used to illustrate the didactic teaching.

It is the hospital centre for a large part of New Hampshire and of Vermont. About eighty per cent of its cases are surgical.

During the year 1907–8 there have been 726 operations on in-patients.

Of 551 visits, operations, dressings, etc., in the out-patient department, 426 were surgical; of these 77 were nose, ear, or throat operations and treatments; 40 were operations or treatments of the eye.

There have been 7 gall-bladder operations; 160 operated cases of Appendicitis; 32 Hysterectomies; 104 operations on the Uterine Appendages; 29 Ventral Suspensions; 54 Curettements; 2 Nephrectomies; 3 Cataract operations; 31 Adenoid and Tonsil resections; and many others equally important to the student. Among the 170 Medical cases there have been diseases of the Circulatory, Respiratory, Genito-Urinary, and Nervous systems, and other classes of disease. These references are to a portion of the recorded cases.

Because the classes are small each student has the opportunity before graduating of receiving personal instruction at the bedside, of assisting in operations, and of giving ether. They are divided into small groups which follow up the cases and do the dressings under direction. They are taught physical diagnosis at the bedside and in the examining room. They make blood and urine tests of patients who are under their daily observation. The diagnosis, prognosis, and after history of these cases are discussed freely and in detail with the classes by the Instructors.

The appointment of a recent graduate as house officer is made every six months, and the position affords full and valuable experience. The terms of service begin on April first and October first and continue one year.

☞ Those desiring further information may address WILLIAM T. SMITH, M.D., Dean, Hanover, N. H.

THAYER SCHOOL OF CIVIL ENGINEERING

CALENDAR

1908

July 14 . . . Year of forty weeks for the First Year Class began Tuesday, 8.15 A.M.

September 15 . Year of thirty-one weeks for Second Year Class began Tuesday.

December 23 . Recess of twelve days begins after the morning recitation.

1909

January 5 . . Class-work resumed at 8.30 A.M.

April 21–22 . . Meeting of the Board of Overseers. Examination of the classes. Reading of the theses of the class of 1909. Conferring of the degree of Civil Engineer.

Summer work-period of about twenty-one weeks begins for the First Year Class.

July 13 . . . Session-year 1909–1910 begins Tuesday, 8.15 A.M.

September 15 . Session-year for the Class of 1910 begins.

THAYER SCHOOL OF CIVIL ENGINEERING

The Thayer School of Civil Engineering was established in 1871 to provide a *distinctly post-graduate* or professional course of study in Civil Engineering. The fundamental idea was to have all of the preparatory training precede the technical. A programme of requisites for admission included the necessary mathematics through the calculus, descriptive geometry, chemistry, physics, astronomy, and related studies. This almost imposed a necessity upon the applicant to take at least a partial course in College or Scientific School, where, besides the stricter requirements, he would have some breadth of training in languages, history and "the humanities" generally. Consequently, during the first twenty years, 72 per cent of those admitted had already received the degree of A.B. or B.S.

In 1893 President Tucker, in his inaugural address, stated the policy of Dartmouth College in these words: "It is always and everywhere the function of the College to give a liberal education, beyond which and out of which the process of specialization may go on in any direction and to any extent. The College must continually adjust itself to make proper connection with every kind of specialized work, but not to do it."

The Board of Overseers which is responsible for the general programme of courses of study and practice, in accordance with the prescriptions of the founder, then sanctioned the arrangement by which the first year's course in the Thayer School could be elected by Seniors in College who had attained to the prescribed standard and could pass a special examination conducted by the Director and the instructors of the Thayer School. The advantages of this policy and arrangement are now recognized in current discussions on technical education; indeed, in some quarters, the idea has been advanced as a novelty. The high standard restricted the number of students in the early years, but secured men of broader education, and the change referred to has made it possible, during the past fifteen years, for the capable student to secure both the College degree and the professional in five years instead of six.

The administration of the Thayer School has offered from the first a general course of study in civil engineering, aiming to include all essential principles and primary operations. There are no laboratories or special machinery for instruction in "mechanical engineering"; but the instruction in applied mathematics, mechanics, and physics covers the fundamental theory of mechanical engineering, and there is a small equipment for a suitable course in electro-technics. Special attention is given to the indispensable general qualifications of the graduate, to wit: He must be adept in the routine practice of surveying, so as to hold his place under an exacting chief of party; he must be, at the start, an acceptable junior draftsman and an accurate computer; he must have practical knowledge of the ordinary materials of construction, gained by adequate laboratory tests and by trained powers of observation; he must have facility in making accurate and sufficiently complete records in a well-kept note-book; and the habit and method of informing himself as to the progress of engineering science and practice.

The Thayer School is associated with one of the six oldest colleges in America, and offers the following advantages: A location favoring uninterrupted work; small classes, to which experienced instructors give close supervision — three to eight hours daily; hence opportunity for each student to make full use of every facility available; a region favorable for unhampered out-door work, in its varied topography, so that during three months, with unrestricted range of country, the conditions of actual practice are nearly realized, to wit: entire days of unbroken work and each man made responsible for a prescribed accomplishment and the checking of results; and, finally, for those to whom expense is a serious matter, a rate of tuition about one-half to two-thirds that at similar institutions of high rank, with cost of living less than in or near a city. Furthermore, each subject is pursued uninterruptedly to a finish, and usually not more than two subjects are under consideration simultaneously. Also in the field work there is provided an average of about one instructor to five students; and, for the general class work of the year, one instructor to ten students.

REQUIREMENTS FOR ADMISSION

1. Arithmetic; 2. Algebra, *Taylor* or *Bourdon;* 3. Geometry; 4. Trigonometry and Mensuration; 5. Compass Surveying; 6. Descriptive Geometry, including Shades, Shadows, Perspective, and Isometrical Drawing; 7. Analytic Geometry, *Bowser* or *Hardy;* 8. Calculus, *Hardy;* 9. Mechanics as treated in Physics; 10. Chemistry: as nearly as possible a course equivalent to Chemistry 2, 3, and 4 of Dartmouth College courses; 11. Physics: as nearly as possible the equivalent of Physics 1, 2, 3, and 4 of the College Courses; 12. Astronomy, *Young's Manual;* 13. Physical Geography and Meteorology.

The text-books indicated above are recommended, but others fully equivalent may be used.

Students entering Dartmouth College, with the engineering courses in view, are advised to present for entrance: English, French, two years Latin, History I or II, Mathematics I and II, Physics, and Chemistry (elementary). It is advisable also to devote some time to freehand drawing, lettering, sketching from models, machinery, etc.

Students in Dartmouth College, in course of preparation for the Thayer School, are advised to take the following studies, both to meet the College requirements and to conform to present standards of qualification:

FRESHMAN YEAR

First Semester	*Second Semester*
French 5 or 1	French 6 or 2
Graphics 1	Graphics 2
English 1	English 2
Mathematics	Mathematics
* Spanish 1	Spanish 2

* Students preparing for the Thayer School, who present French for entrance to College, are allowed to take Spanish instead of German, but those students presenting German must take French in Freshman Year.

SOPHOMORE YEAR

First Semester	*Second Semester*
Graphics 3	Graphics 4
Mathematics	Mathematics
Physics 1	Physics 2
Physics 3	Physics 4
History 1	History 2
	Chemistry 2 for those not presenting Chemistry on entrance.

JUNIOR YEAR

First Semester	*Second Semester*
* Mathematics	Engineering 2
Chemistry 3	Chemistry 4
Astronomy 1	Astronomy 2
English 9	English 10
Economics 1	Economics 2
Graphics 5	

Candidates for admission should give notice of intention to apply by April 15, or earlier if possible. Certificates from preparatory institutions, as to scholarship and character, will have due weight, but in all cases the candidate is orally examined, more especially with reference to the essential principles of the branches numbered 2, 3, 4, 6, 7, 8, 9, 10, and 11. Prompt and accurate statement of principles and definitions is insisted upon, and a limited amount of blackboard work required. A neat set of mechanical drawings — constructions of important geometrical problems and a few leading problems of Descriptive Geometry — must be presented. Hence a fair degree of skill in mechanical drawing is one of the essential conditions.

Students of approved ability and proficiency in Dartmouth College may elect the first year courses in the Thayer School for their work of Senior year. At the close of the year, they may formally graduate from the College. They may then become eligible for the degree of

* Mathematics must include Algebra, Plane and Higher Geometry, Trigonometry, Analytical Geometry, and the Calculus. Short courses in Differential Equations and Determinants are strongly urged because of their applications in the theory of electro-technics.

Civil Engineer, after pursuing the advanced engineering courses, post-graduate studies of the second year group.

The conditions for such election are: a "standing" of at least 75 per cent, in the aggregate, in the subjects above specified, and not less than 85 per cent in at least three, nor less than 60 per cent in any one (not less than 75 per cent in Algebra, Trigonometry, and Descriptive Geometry); a special examination, as stated above; an intention to pursue, eventually, the entire engineering course, either in the next consecutive year, or as soon thereafter as the circumstances may permit. Only young men of correct habits and high character will be accepted or retained. Indulgence of an appetite for intoxicating drink will be sufficient reason for rejection of any applicant; — and such indulgence by an accepted member of the institution during his course will be sufficient cause for summary dismissal.

COURSES OF STUDY AND PRACTICE

FIRST YEAR

From the middle of July to the last week in April, forty weeks, each week comprising eleven half-days, of four and a half hours, devoted to study, field work, or office work. In emergencies the half-day is extended to five hours or more.

Instruction is given chiefly through daily recitations from text-books, with comments and explanations by the instructor, and occasional test examinations. In each course one or two principal text-books are purchased by the students, and others for reference or class-room use are made available by the School. The most recent suitable and standard books are procured. Each student is called upon occasionally to read and report upon an assigned topic, presenting results before the class both from prepared notes and sketches and by oral demonstration.

The amount of field work and practice in laboratory, etc., is made sufficient only to elucidate and emphasize the more important principles.

A — THEORY AND PRACTICE OF SURVEYING. [This is preceded by a preliminary course of 104 hours during Junior year in College.]

1. INSTRUMENTS: — Engineer's transit, wye-level, dumpy level, prismatic compass and sextant; theory of and perfecting of adjust-

ments; finding magnifying power of telescopes, sensitiveness of spirit levels and compass needles, etc.

2. PRELIMINARY PRACTICE until a required degree of facility is attained, and in which each student shall, by himself or as one of a party, do well a piece of test work of each of the following kinds: differential levelling; angle measurement in a small scheme of triangulation on a systematic plan of survey for the season; a land survey involving ordinary measurement of lines and angles; measurement of a baseline by steel tape and method adequate to secure precision shown by a probable error not greater than 1 in 400,000; solar observations with engineer's transit for azimuth.

3. GENERAL PRACTICE: — A topographical survey for a small contour map, including part of a village or town; a stadia survey of several miles making closed circuits for checks; the routine of an ordinary railroad survey, preliminary and location, with some special practice in locating easement curves, frog-angles, and switches; some practice with the aneroid barometer, prismatic compass, and hand-level in reconnaissance. The office work includes the most approved methods of computing, use of planimeter and slide-rule, or more precise calculating machine, mapping, and tracing. All the work is planned to yield definite and useful results in shape of maps and profiles of selected districts near by, and to foster an *esprit de corps* and pride in the accomplishment.

4. SPECIAL METHODS and instruments: — use of the plane-table, photography in surveying, geodetical surveying, and special practice relating to city and underground surveys, etc., can only be briefly considered in the class-room. Such special practice is beyond the domain of the School, but readily mastered in the future. 154 half-days.

B — MECHANICS AND APPLICATIONS. Principles of kinematics, statics, and kinetics; data and laws of friction; elements of mechanism; important applications in the stability of structures, machine design, operation of hoisting machinery, action of the locomotive engine, etc. 70 half-days.

C — MATERIALS OF ENGINEERING. 1. Physical and chemical properties and production of limes, cements, mortars, natural and artificial stone, timber, iron, steel, zinc, copper, aluminum, etc.; durability, preservative materials; a brief course in Mineralogy. 2. Mechanical properties, analytically and experimentally treated.

3. Laboratory tests of cements, iron, steel, wood, and other materials. 70 half-days.

A testing-machine of sufficient capacity for tension, compression, and bending stress affords sufficient practical illustration of the mechanics of materials in a prescribed series of tests made by each student. Several series of cement tests are carried out each year by groups of two or three, and written reports of these are made to the Instructor in proper form.

D — ORDINARY AND SPECIAL STRUCTURAL WORK AND OPERATIVE DETAILS. Course begun: Elementary courses on stone-cutting (practical problems on the drafting-board), masonry and foundations, piers, arches, culverts, and other masonry structures. 36 half-days.

E — FRAMED STRUCTURES: TRUSSES FOR ROOFS AND BRIDGES, BUILDING SKELETONS, ETC. Course begun: Graphical statics and other analysis applied to girders and simple trusses. Ordinary and essential details. One or two simple designs. 40 half-days.

G — ROADS, RAILROADS, AND TRANSPORTATION IN GENERAL. Course begun: Roads, streets, and pavements, — construction and maintenance. 20 half-days.

L — ELECTRO-TECHNICS. Course begun. Confined to direct currents for the first year. 39 half-days.

SECOND YEAR

Thirty-one weeks of eleven half-days each, from the middle of September to the last Tuesday in April. During the second year the character and range of subjects call for wider reading of treatises and current technical literature, which is promoted by full programmes of the courses and use of indexes.

D — (*concluded*). Framing in wood and metal; advanced reading on masonry and foundations. Theory and practice in relation to retaining walls, dams, chimneys, fire-proof and slow-burning construction of buildings; renewals and enlargements; a text-book course on the theory and applications of reinforced concrete in these and other cases. Estimates and costs. Engineering contracts and specifications and inspections. Auxiliary work and machinery. Tours.

E — (*concluded*). Analysis of stresses in trusses, framed arches, stone arches, and suspension bridges; details and maintenance.

Frames of tall buildings. Tours for inspection. One design worked out.

F — ROCKWORK, TUNNELLING, AND MINING. Outlines of Geology: vacation reading. Explosives and blasting; special appliances and methods in subterraneous works. Reading and lectures. 12 half-days.

Copper mines and furnaces near by in Strafford, Vermont, afford object lessons in mining and metallurgy. A new and instructive development in the reduction of low-grade ores is just begun by the completion of a costly power plant near Sharon, on the White River, and a seven-mile electric transmission line, making the electric energy available for the mines and reduction works.

G — (*concluded*). Economics of location, construction, and maintenance of railways. A brief study of street railways (electrical and cable traction, etc.), mountain railways, telpherage, and marine transportation. 30 half-days.

Tuck School lectures on history and theory of transportation and on railroad operation and administration may be attended.

H — HYDRAULIC ENGINEERING. Statics and dynamics of fluids; principles and data of hydraulics; collection, storage, purification, and distribution of water for town supply, power, and irrigation. Hydraulic motors: water-wheels, turbines, rams, etc., theory, — construction and operation, development of water power. Gauging of Connecticut River or other streams when practicable. Measurements of flow by weirs and nozzles, of efficiency of motors and pumps, friction in pipes, fire-hose, etc. 50 half-days.

The Hanover Waterworks gravity system, constructed at a cost of $70,000, affords all needed conditions for hydraulic experiments under a head of 190 feet, in a laboratory equipped for all such operations of recognized importance. Including a reservoir of 135,000,000 gallons capacity, a dam 720 feet long, gate-house, and main and distribution system of about eight miles of pipe, the works are available for inspection, for study of rainfall and its collection, water-ram in the pipes, efficiency of fire-streams, etc.

I — HEAT, HEAT ENGINES AND POWER. Principles of Thermodynamics; fuels and their combustion; steam. Heat engines; construction and operations of typical forms; application of laws. Development and transmission of power. 30 half-days.

The central steam-heating system of the College, serving 38 buildings, affords opportunity for studying efficiency of boilers and furnaces, at times when regular tests are made. The mills at Wilder, near by on the Connecticut River, give abundant facilities for studying the operation of a large water-power plant. Arrangements have been made for conducting tests of water-wheels, gauging flow in flumes, testing fire-pumps, etc., at these works. In the study of development of power, courses H, I, and L are necessarily partly concurrent.

J — SANITARY ENGINEERING. Drainage and sewerage; systems and appliances; governing principles. Heating and ventilation. Special study of "Separate Systems" and methods of sewage disposal. Sand filtration of water and sewage. 30 half-days.

The village has three separate systems of sewerage, one built by the College and adapted to a suitable disposal plant hereafter. Successful examples of heating and ventilation may be studied in the new buildings of the College. A set of model sand filters has been in operation for some years at the Thayer School building, and those who take special interest in the problem of the purification of water supply as affected by micro-organisms may arrange for such studies so far as time will permit.

K — CANALS, IMPROVEMENT OF RIVERS AND HARBORS. Principles; surveys and observations; construction in different cases, — means and methods of procedure. (Briefly by reading and lectures.)

L — PRINCIPLES OF APPLIED ELECTRICITY. In this course, the method of instruction aims to impart a concise, practical knowledge of fundamental laws and phenomena, and of the best modern types of electrical apparatus, so as to give an understanding of their design, construction, and operation.

The recitations deal with the analysis of the magnetic field and lines of force; the magnetic circuit; properties of the electric current; electro-magnets; electro-magnetic induction; electrical units; energy of the electric circuit, and the application of the foregoing to primary and storage cells, motors and dynamos, telephone and telegraph, electric lighting and transformers.

The laboratory exercises are arranged to show the construction and use of the more important measuring instruments, and to give practice in testing for resistance and insulation.

Supplementary lectures will deal more specifically with the con-

struction, operation, and characteristics of motors, dynamos, and transformers; storage batteries; alternating currents; electrical transformation; transmission and distribution of energy. 84 half-days, including 36 half-days in the first year.

M — THESIS WORK in connection with one or more of the courses, and about a week of exclusive time. Some of the courses of this year are so interdependent that they are pursued concurrently; hence the time allotments stated are only approximate.

IN GENERAL

BUSINESS RELATIONS OF THE ENGINEER. Arrangement is made for attendance of students of the Thayer School upon lectures given in the Tuck School of Administration and Finance, upon the law of contracts and upon organization of industrial plants, etc. On the other hand students of the Tuck School are invited to participate in such parts of Courses G and K as are approximate to their own courses of study.

TOURS, for the study and inspection of works in progress or completed, are made when expedient. Visits have been made to Boston, Lawrence, Lowell, Worcester, Holyoke, New York, etc.: and have included the construction of the first Brooklyn suspension bridge; steel works; sewage disposal works at Worcester and Clinton; the principal works for water supply and water-power development in New England; mines, bridge works, large pumping plants, Massachusetts Experiment Station, etc.

Three day-trips made this year for inspection of two power plants nearly completed, copper mines, waterworks, and a variety of bridges, — seven typical forms in wood and steel.

SUMMER WORK PERIOD AND INTERMEDIATE YEAR. Recently, until the summer of 1908, opportunities for summer employment have exceeded the supply of available young men. In most cases the students are qualified only for subordinate positions as draftsmen, assistants in city engineers' offices, on railway surveys, or maintenance, U. S. Government Surveys, etc. The advantages from such practice are often very considerable, but vary with the opportunity offered, and with the character, aptitude, and previous experience of the man.

Some find it necessary or desirable to continue in such employment during the entire following year, and such sometimes make their way to positions of responsibility; these are entered in the Annual, and College Catalogue, as a non-resident division for an intermediate Year.

U. S. CIVIL SERVICE EXAMINATIONS. The U. S. Civil Service Commission has arranged to hold examinations in Hanover, for the convenience of applicants from the student body. The positions for which students of the Thayer School of Civil Engineering are eligible are: Aid, Coast and Geodetic Survey, assistant topographer, draftsmen, civil engineer and draftsmen, engineering and hydrographic aid, U. S. Geological Survey, and U. S. Reclamation Service. The last three are usually possible only for second-year students, candidates for the degree of C. E.

PUBLICATIONS AND THAYER SOCIETY OF ENGINEERS

Previous to 1899 the announcements of the Thayer School of Civil Engineering were made at length in the Annual Catalogues of Dartmouth College and by occasional bulletins. But the advantage of a separate and earlier publication, giving addresses of graduates and other information not admissible in the Catalogue, had assumed such importance that a separate Annual became a necessity. When the Thayer Society of Engineers of New York was organized in 1903 to promote the interests of the Thayer School, it assumed the responsibility of providing for the publication of the "Annual," through its Executive Committee. As the Society includes in its membership former members of the Chandler Scientific Department of the College, as it was distinctively known before 1893, it has also endeavored to get into touch, not only with all former students of the Scientific Courses, but also with all graduates of the College who have become identified with engineering or related pursuits. Hence the supplementary list of addresses which has appeared in the "thick" or larger editions in recent years, and which has been distributed chiefly by the Secretary of the Thayer Society of Engineers.

THE ANNUAL. A publication giving addresses and occupations of all former members of the Thayer School, and other information of interest to its graduates, is published under auspices of the Thayer Society of Engineers of Dartmouth College, usually in September of each year.

The Annual also contains addresses of graduates of the former Chandler Scientific School and of the College who have followed Engineering or kindred pursuits.

For information concerning the Thayer Society of Engineers, apply to the Secretary, Charles H. Nichols, Civil Engineer, River Road, Bogota, N. J.

TERMS, EXAMINATIONS, AND EXPENSES

TERMS, EXAMINATIONS, ETC. The session-year is divided into two terms by the holiday recess of ten days. The summer work-period extends from the last week in April to mid-September. The graduating Theses are submitted to the Board of Overseers, before whom the candidates for the *Degree of Civil Engineer* present themselves for examination in April; after which the degrees are formally conferred.

Tuition is one hundred and twenty-five dollars per annum, one-half to be paid each term in advance. There is no provision for pecuniary aid. The annual expenses for an economical student will vary not far from four hundred dollars, including tuition, books and stationery, board, fuel, light, and drawing instruments.

Entering students are regarded as on probation from July 15 to the opening of the College year in September. Any who fail to maintain class standing in the Thayer School *will not be given credit* for that time in the ensuing college year if they remain in College.

Any student who fails to maintain an average of at least 75 per cent during the first year of the Thayer School work will not be allowed to enter upon the courses of the second year, nor be entered upon the College Catalogue as a student of an intermediate year.

For further information, address Professor ROBERT FLETCHER, Director.

THE AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

CALENDAR

FIRST YEAR

1908

September 24 . . . . . Year begins — Thursday morning.
November 26 . . . . . Thanksgiving Day — Holiday.

Recess from December 23, 10 A.M., to January 6, inclusive.

1909

January 29 to Feb. 11 . . First Semester Examinations.
April 1 to 14 . . . . . Easter Recess.
June 10 to 24 . . . . . Second Semester Examinations.

SECOND YEAR

1908

September 24 . . . . . Year begins — Thursday morning.
November 26 . . . . . Thanksgiving Day — Holiday.
December 21 and 22 . . . First Semester Examinations.

Recess from December 23, 10 A.M., to January 6, inclusive.

1909

April 15 to 21 . . . . . Final Examinations.
April 22 . . . . . Second Year ends.

OFFICE HOURS

DIRECTOR — Harlow S. Person — Room A, Tuck School, 9 to 10 and 11 to 12 A.M., daily except Saturday.

THE AMOS TUCK SCHOOL

FOUNDATION, ORGANIZATION, AND AIM OF THE AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

FOUNDATION

Under the terms of the Amos Tuck Endowment Fund, the gift by Mr. Edward Tuck of the Class of 1862, of the sum of three hundred thousand dollars as a memorial to his father, the Honorable Amos Tuck of the Class of 1835, and a Trustee of the College from 1857 to 1866, especial provision was made for the "establishment of additional professorships within the College proper or in graduate departments." In accordance with this provision of the endowment fund for additional instruction in undergraduate and graduate courses, and with the direct approval of the donor, the Trustees of Dartmouth College established, in January, 1900, the Amos Tuck School of Administration and Finance.

By a second gift of one hundred and forty thousand dollars Mr. Tuck made provision for the erection and maintenance of a building for the uses of the School. This building was occupied in September, 1904.

ORGANIZATION

The Amos Tuck School of Administration and Finance is one of the associated, graduate professional schools of Dartmouth College. It offers a two-year course. This two years of Tuck School work follows the four years of College work, but is so adjusted to it that the First Year of the School, requiring for admission three years of College work, is equivalent to the College Senior year, while the Second Year of the School constitutes a fifth year strictly graduate in character.

First-Year students whose preparation is sufficient to admit them to regular standing in the Senior year of Dartmouth College are enrolled in the College as well as in the Tuck School. The College, accepting the work of the First Year of the School as equivalent to the work of its Senior year, confers the bachelor's degree upon students who have

been so enrolled and have completed the work of the First Year in the Tuck School.

The Tuck School confers the degree of Master of Commercial Science upon regular students who have completed the work of both years.

AIM

GENERAL AIM. The Tuck School aims to meet both the increasing demand of business men for more efficient service and the increasing demand of young men about to enter business for training that will enable them to realize more rapid advancement. It aims to accomplish this by making it possible for young men to begin business careers with the advantages that accompany a disciplined and well-informed mind, a general knowledge of business conditions and methods, and a special knowledge of certain branches of business which have become specialized. The School does not presume to create the genius for business; it aims in this respect to assist the young man to discover for himself and combine into an effective working force such elements of business ability as he may possess. It does not presume to make of its students men of mature business judgment; in this respect it aims to equip its graduates with those powers of analysis and interpretation necessary to the development of sound judgment in business experience. It does not presume to create experts in any particular line of business; it does aim, however, for many branches of business, to acquaint its students with those rudiments of expert knowledge familiarity with which makes the further acquisition of expert knowledge relatively easy. The School does not expend its energy teaching those details of business which can be learned most quickly and effectively in later experience; it is the purpose, however, to develop for the business world an exceptional grade of raw material possessing the ability to recognize the significance of routine details in their relation to the organization and administration of a business institution.

THE DEMAND OF BUSINESS. There is an increasing demand on the part of business men for better-trained shop and office service and for more efficient management. Especially is there a demand for apprentices who can be relied upon to attend with accuracy to the performance of routine duties, but who, at the same time, manifest

ability which justifies rapid promotion from the narrow routine of department work into positions of responsibility requiring a familiarity with the conduct of administrative work. Increasing division into departments has impaired the efficiency of the customary method of developing managers by experience alone, for the influence of division of labor is to limit the activity of the apprentice to routine functions and to make it increasingly difficult for him to acquire a comprehension of the larger aspects of a business. The method of an earlier generation, of setting an untrained man to the performance of general utility services, and thereby making of him an efficient manager, does not suffice for modern business concerns. This process of developing managers must be improved by the substitution of trained for untrained apprentices.

The problem is the same for public as for private enterprise. The inadequacy of experience alone to develop out of untrained employees the expert service and efficient management now demanded by municipal, state, and federal bureaus is conspicuous. Legislation looking to the improvement of the Consular Service is but one expression of the public consciousness of the situation.

THE DEMAND OF YOUNG MEN. Recognizing the demand of the business world for more efficient service, an increasing number of young men seeks the opportunity to secure the necessary training. Young men recognize, from the point of view of their interests, at least four significant advantages to be derived from such training. First, the organized institution of commercial education serves as a medium for introducing them into the service of business firms. The graduate of an institution which has acquired the reputation of offering efficient training, and of exercising care in its recommendations, is looked upon with favor by firms demanding capable apprentices. In performing this service the institution acts as a selective force, bringing together individuals and businesses adapted to each other. Second, they recognize the advantage, in competition with fellow-employees, of beginning service with a previously acquired knowledge of the technical aspects of a business; and third, they recognize the special advantage to be derived, in competition for advancement, from an ability to look out over the walls of a department and comprehend the business as a whole, the relations of its parts and its relation to other businesses. Fourth, if the business is one requiring expert knowledge, such as the conduct of foreign exchange, for

one to enter the business with that expert knowledge already in part acquired gives one great advantage over fellow-employees who do not possess that knowledge. The prizes offered by modern business are the higher positions; among the occupants of lower positions the competition for these higher positions is intense, and one who possesses the advantages offered by special training will, other things being equal, secure the advancement.

COMMERCIAL EDUCATION HAS PROVED EFFICIENT. There is no longer among enlightened men any question as to the value of special training for business. The brief experience of the United States, and especially the much greater experience of European countries, has removed all doubt. That there is a body of facts presented by business experience which may be correlated and made the basis of instruction in business theory and practice; that, other things being equal, nations possessing systems of industrial and commercial education realize an advantage in international trade, firms possessing trained service enjoy an advantage over competing firms, and young men who enter business and government service with special training enjoy an advantage over competing employees, has been demonstrated by experience. Business service, as the Germans have declared, is professional, and for it young men may be trained as for other professional services.

COMMERCIAL EDUCATION IN THE UNITED STATES. Recognizing the business man's problem of securing young men capable of rapid advancement into administrative positions, a number of universities and colleges have introduced commercial courses into their curricula, with the view of providing for the business world graduates who have not only had their intellectual powers broadened and intensified by a general college training, but have at the same time been introduced to the facts and methods and to the spirit of business life.

These institutions of higher commercial education present, from the point of view of their organization, two distinct types. One type presents as its commercial course the regular undergraduate college course modified by the introduction of commercial subjects. The principle represented by this type is that training for business may be made part of a liberal, cultural training. The other type presents as its commercial course a group of commercial subjects to be taken by the student after he has completed his liberal training. The principle represented by this type is that training for business should be a

specialized, professional training, just as training for law or for medicine is specialized and professional, and should follow the college course. The Tuck School is representative of this second type and presents the following distinguishing characteristics: —

First: The school requires for entrance that a student shall have practically completed his liberal college course. This insures a body of students who have experienced the discipline and broadening influence of college life and instruction. The life of the college develops certain characteristics fundamental to a successful career, — independence, originality, adaptability; the instruction of the college develops the power to acquire and give value to facts. The School insists that its students shall have been trained as men before it undertakes to train them as business men.

Second: The greater part of the work of the School is of graduate grade. This makes possible, on the part of both students and instructors, a quality of work not attainable in undergraduate instruction. Graduate instruction is characterized in part by more intimate contact between instructors and students and by greater intensity of application on the part of students.

Third: The organization of the School as a professional school permits instruction in subject matter directly applicable to the work of a business man. Emphasis is laid on the practical. The student is inspired to approach his work with the attitude of mind of the business man rather than of the theorist. In his study of Economics in college the student has become acquainted with the general principles of industrial activity; in the first year of the Tuck School emphasis is laid on the practical aspects of business activity; in the second year of the School the work is strictly technical, and, if the student so elect, specialized.

Organization as a professional school has an important influence on the work of the student in that it encourages the development of a professional spirit. This spirit intensifies the work of the student while in the School, and prepares him for immediate adjustment to business life after he has completed his training. By its requirements for entrance the School insists that its students shall have received all the benefits of a liberal college education; by its organization on a basis which develops a professional esprit, it removes from its students that indifference of mind which has caused the assertion that college life often unfits men for business.

GRADUATE TRAINING AND EXPERIENCE. At the time of the establishment of the Tuck School many doubts were expressed by business men and by educators concerning the value of graduate training for business as compared with the value of actual experience in business. Is the value of the training commensurate with the time and money required? Will not the student have wasted a year that might better have been spent in acquiring business experience? The careers of its graduates have satisfied the School that the one year of graduate training is of more worth than the one year of experience. By their readiness to enter at once into the performance of routine work, and by their ability to handle the larger problems of business as these have been presented to them, the graduates of the School have as a whole been able to compel rapid advancement and to make the additional year spent in training for business life a profitable investment. The question is not one of the substitution of training for experience, but of deferring experience until after special training for the experience.

REQUIREMENTS FOR ADMISSION

I. CANDIDATES FOR DEGREES. Students are admitted to the First Year as regular students, candidates for the bachelor's degree, who present with their applications credentials indicating that they have pursued creditably three years of undergraduate work in any approved college or university, subject to the following conditions:—

1. The bachelor's degree for which they become candidates being granted by Dartmouth College at the end of the First Year, the three years of undergraduate work must meet the College requirements for admission to the Senior year of the College.

2. The work of the First Year of the Tuck School being equivalent to a Major in Group III in the College, the applicant should have completed in his three years of college work Minors in Groups I and II. (See *Dartmouth College Catalogue.*)

3. In order to insure adequate preparation for the work of the Tuck School, the three years of undergraduate work must include the following:—

(*a*) One year of English Composition.

(*b*) Two years of French or German or Spanish.

(*c*) Two additional years of language other than English (modern or classical).

(*d*) One year of History. To students intending to take the Consular Service Course it is recommended that Modern European History and United States History be offered. Advanced work in Greek or Latin, comprising the study of Greek or Roman history and politics, will be accepted as meeting this requirement.

(*e*) Two years of Economics.

4. For admission without examination, the records of the applicant must show an average standing of not less than 70 per cent for all courses taken during the three undergraduate years. Students whose records do not meet this requirement will be admitted upon examination only.

II. SPECIAL STUDENTS. Students may be admitted as special students, not candidates for a degree, whose preparation is such as to give evidence that they can pursue profitably the work of the First Year. A certificate of work actually done is granted to such students.

APPLICATIONS.

Applications for entrance to the Tuck School are to be filed with the Director on blanks provided for the purpose.

Applications must be approved by the President of the College and the Director of the Tuck School before the applicant can be admitted. In determining the fitness of students for entrance, in addition to previous scholarship in the subjects required for entrance, as indicated by the records presented, business aptitude and experience, and other facts indicating an ability to pursue profitably the work of the School, are made the basis of judgment.

ORGANIZATION OF COURSES

THE REGULAR COURSES

MERCANTILE OR MANUFACTURING BUSINESS, IMPORT AND EXPORT TRADE, BANKING, INSURANCE, TRANSPORTATION, ACCOUNTING

THE FIRST YEAR. The work of the First Year is planned to afford an effective approach to the specialized work of the Second Year. The work of this year is foundational in its nature and is the same for all students, except that a student who has decided upon a field of specialization for the Second Year may elect one course in that field. The courses required of all students are: Accounting, Modern Language, National Industrial Efficiency, Economic Geography, Resources and Industries of the United States, Industrial Organization, Money and Banking, Statistics, Tariff History and Policy, and Transportation. The elective courses, connecting the work of this year with specialized work of the Second Year, are: History and Theory of Insurance, Banking Problems, International Trade, and Interstate Commerce Act.

THE SECOND YEAR. The work of the Second Year is of graduate grade, and aims to encourage independence of thought and development according to natural inclinations. The subject matter is technical and students may specialize to meet individual requirements. The discipline is severe and is intended to approach the discipline characteristic of business life. The work of the resident faculty is supplemented by lectures of business men, whereby various phases of study are materially strengthened and the student is introduced to the spirit of business life.

The work of this year consists, first, of a group of courses which the experience of the School has demonstrated to be of value to every student, whatever the particular field of business he proposes to enter. This group of courses is required of all students, and comprises Commercial Law, Accounting, Business Management, Corporation Finance, and Modern Language. The work of the year consists, second, of a

group of courses from which the student may elect for the purpose either or continuing his training for general business or of securing a training for some particular field of business. Among the courses of this group are Transportation, Practical Banking, Foreign Exchange, Foreign Commerce, Insurance, and Advanced Accounting. The work of the year consists, third, of the preparation of a thesis. To this thesis the School attaches much importance, and in its preparation requires constant and exact work. The student is encouraged to select a subject pertaining to the field of business which he has in view, and is encouraged by the School to visit and study some institution representing that business. The data for most of the theses submitted has been secured by investigations of this kind.

SPECIAL COURSES

CONSULAR SERVICE EXAMINATIONS, SECRETARIAL WORK, JOURNALISM, TEACHING, AND ENGINEERING

CONSULAR SERVICE EXAMINATIONS. The combination with regular and special Tuck School courses of courses offered in the departments of History, Economics, and Political Science in Dartmouth College offers to the student a course of training that will prepare him not only for consular examinations, but also for efficient work in the Consular Service. The composition of the course of training for the Consular Service is determined by two conditions: (1) by the subjects of examination for admission to the Consular Service prescribed by the Department of State, subjects whose object is to insure adequate training in economics, history, and diplomacy; and (2) by the necessity that, for the most efficient service, especially in the higher consular positions, a consul should have experienced a training for business with especial reference to the conduct of foreign commerce.

The subjects of examination set by the Department of State are "at least one modern language other than English; the natural industrial and commercial resources of the United States, especially with reference to the possibilities of increasing and extending the foreign trade of the United States; political economy, and the elements of international, commercial, and maritime law. . . . American history, government, and institutions; political and commercial geography;

arithmetic (as used in commercial statistics, tariff calculations, exchange, accounts, etc.); the modern history, since 1850, of Europe, Latin America, and the Far East, with particular attention to political, commercial, and economic tendencies. In the written examination, composition, grammar, punctuation, spelling, and writing will be given attention."

In addition to courses representing the subjects of examination set by the Department of State, the Consular Service course of the Tuck School includes courses in Accounting, Money and Banking, Statistics, Commercial History and Policy, Practical Banking, Foreign Exchange, and Foreign Commerce.

SECRETARIAL WORK. For students who wish to enter business life by serving in the capacity of private secretaries, in addition to its general business course the School provides facilities for private instruction in typewriting and shorthand.

JOURNALISM. For students intending to enter journalism provision is made for instruction in the routine work of the various departments of a newspaper plant, and the opportunity is offered to such students to supplement Tuck School work by work in History, Economics, and English Composition in Dartmouth College.

TEACHING. There is an increasing demand on the part of academies, high schools, and colleges for college graduates specially trained to teach commercial subjects. The Tuck School offers special instruction to students desiring such a training.

ENGINEERING. There is a demand on the part of the engineering profession for men of more thorough business training, and on the part of some businesses for men with a knowledge of engineering. Facilities are offered, by arrangement with the Thayer School of Civil Engineering, associated with Dartmouth College, to such men as desire to pursue work in both schools.

An ability to write letters and reports, correct as to spelling, grammar, syntax, and form, is required of all students, and *is made a condition to graduation.* Classes are organized, in both years of the School, for the purpose of affording students the necessary practice.

COURSES OF INSTRUCTION

ARRANGEMENT OF COURSES

THE REGULAR COURSES. The courses of the School are arranged in groups, each group having reference to a possible field of specialization. Group A represents the General Business (Mercantile and Manufacturing) course; Group B, Foreign Commerce; Group C, Banking; Group D, Transportation; Group E, Insurance; Group F, Accounting.

The work of the First Year being foundational in its nature, the constituent courses of the several groups are in this year practically the same. In the second Semester, however, one course in each group serves to introduce the student to that field of business which the group emphasizes. These courses are: Theory of Business Administration, International Trade, Banking Problems, Interstate Commerce Act, and History and Theory of Insurance.

In the Second Year the difference between the groups is clearly defined. This is effected by special courses and by the requirement of a thesis. The special courses are: Foreign Commerce, Practical Banking, Railroad Service, Insurance Economics and Mathematics, and Public Accountancy. The thesis must represent the investigation of some business problem pertinent to that field of business which the group emphasizes, and conferences with the instructor on the thesis afford the opportunity for individual instruction in the subject.

In addition to the regular courses prescribed for any group, students are permitted to elect additional courses in the Tuck School or in Dartmouth College, provided the circumstances make reasonable the assumption of such additional work. Permission to take additional courses must be secured of the Director. The group system of the Second Year in particular is flexible, and reasonable substitutions and additions, under the supervision of the Director, are allowed. It is the aim in this year so to arrange the work of the individual student that, his preparation and his desires as to specialization being taken into consideration, the best results may be secured from the work of the year.

The arrangement of courses in the various groups, presented in tabular form, is as follows: —

SPECIAL COURSES. Students intending to prepare for journalism teaching, and other special fields, elect the General Business course modified, under the supervision of the Director, to meet their particular requirements. The arrangement of courses for the Consular Service only is presented in detail. The arrangement of the Consular Service course is as follows: —

FIRST YEAR

FIRST SEMESTER	Hrs.	SECOND SEMESTER	Hrs.
Accounting A	2	International Law	3
French A *or* German A *or* Spanish A	2	French B *or* German B *or* Spanish B	2
Economic Geography	4	Resources and Industries of the United States	4
Statistics A	2	Statistics B	2
American Government	3	American Diplomacy	3
Money and Banking	3	Commercial History and Policy	3
National Industrial Efficiency	2		
	18		17

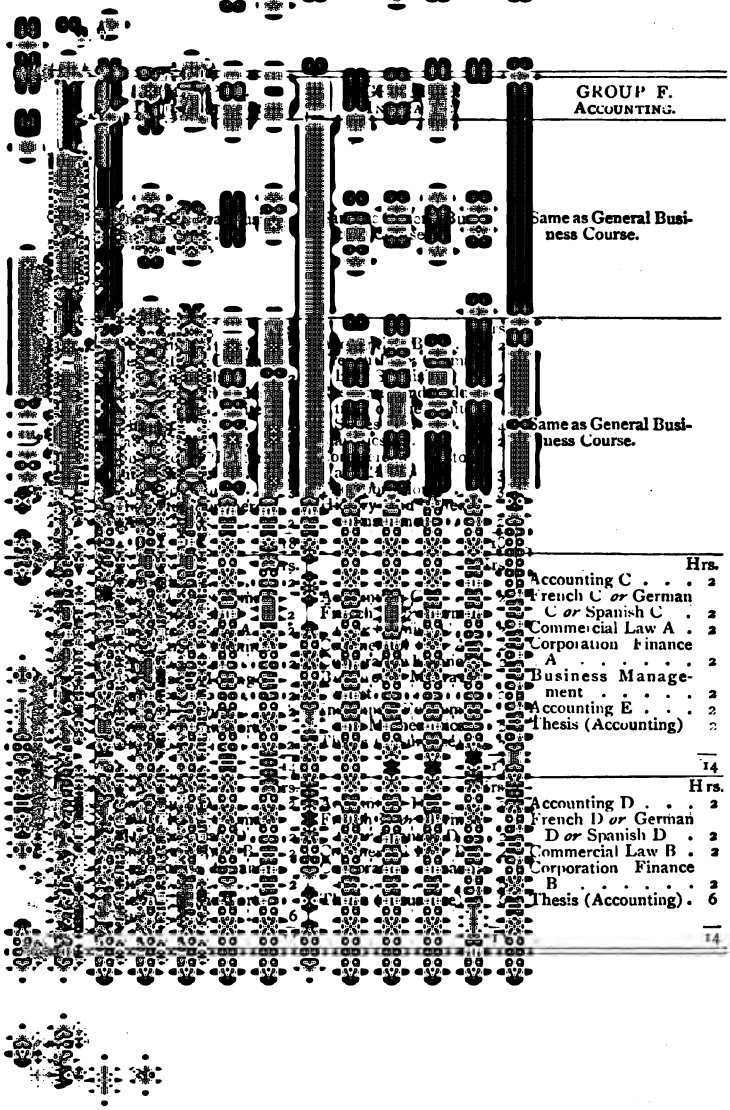
SECOND YEAR

FIRST SEMESTER	Hrs.	SECOND SEMESTER	Hrs.
French C *or* German C *or* Spanish C	2	French D *or* German D *or* Spanish D	2
Commercial Law A	2	Commercial Law B	2
Business Management	2	Maritime Law	2
Foreign Commerce	2	Spanish-America and the Far East	2
Foreign Exchange	1	Thesis (Consular Service)	6
Advanced Commercial Geography	2		
Thesis (Consular Service)	2		
	13		14

RULES GOVERNING THE ELECTION OF COURSES

An election consists in the selection of a group. In indicating an election it is unnecessary to specify the courses making up a group; it is sufficient to indicate the group only. *A student must complete and take examinations upon all courses making up the group selected.*

		GROUP A. General Business.	GROUP B Foreign Commerce.	GROUP C. Banking.
FIRST YEAR.	First Semester.	Hrs. Accounting A . . . 2 French A *or* German A *or* Spanish A . 2 National Industrial Efficiency . . . . 2 Economic Geography 4 Statistics A . . . . 2 Money and Banking . 3 Industrial Organization 3 18	Same as General Business Course.	Same as General Business Course.
	Second Semester.	Hrs. Accounting B . . . 2 French B *or* German B *or* Spanish B . . 2 Theory of Business Administration . . 2 Resources and Industries of the United States . . . . . 4 Statistics B . . . . 2 Commercial History and Policy . . . 3 Transportation . . . 3 18	Hrs. Accounting B . . . 2 French B *or* German B *or* Spanish B . . 2 Resources and Industries of the United States . . . . . 4 Statistics B . . . . 2 Commercial History and Policy . . . 3 Transportation . . . 3 International Trade . 2 18	Hrs. Accounting B . . . 2 French B *or* German B *or* Spanish B . . 2 Resources and Industries of the United States . . . . . 4 Statistics B . . . . 2 Commercial History and Policy . . . 3 Transportation . . . 3 Banking Problems . 2 18
SECOND YEAR.	First Semester.	Hrs. Accounting C . . . 2 French C *or* German C *or* Spanish C . . 2 Commercial Law A . 2 Corporation Finance A . . . . . 2 Business Management . . . . . 2 Practical Banking . 2 Thesis 2 14	Hrs. Accounting C . . . 2 French C *or* German C *or* Spanish C . 2 Commercial Law A . 2 Corporation Finance A . . . . . 2 Business Management . . . . . 2 Foreign Commerce . 2 Thesis (Foreign Commerce) 2 14	Hrs. Accounting C . . . 2 French C *or* German C *or* Spanish C . 2 Commercial Law A . 2 Corporation Finance A . . . . . 2 Business Management . . . . . 2 Practical Banking . 2 Thesis (Banking) . . 2 14
	Sec'd Semester.	Hrs. Accounting D . . . 2 French D *or* German D *or* Spanish D . 2 Commercial Law B . 2 Corporation Finance B . . . . . 2 Thesis 6 14	Hrs. Accounting D . . . 2 French D *or* German D *or* Spanish D . 2 Commercial Law B . 2 Corporation Finance B . . . . . 2 Thesis (Foreign Commerce) 6 14	Hrs. Accounting D . . . 2 French D *or* German D *or* Spanish D . . 2 Commercial Law B . 2 Corporation Finance B . . . . . 2 Foreign Exchange . 1 Thesis (Banking) . . 5 14



GROUP F.
ACCOUNTING.

Same as General Business Course.

Same as General Business Course.

	Hrs.
Accounting C	2
French C *or* German C *or* Spanish C	2
Commercial Law A	2
Corporation Finance A	2
Business Management	2
Accounting E	2
Thesis (Accounting)	2
	14

	Hrs.
Accounting D	2
French D *or* German D *or* Spanish D	2
Commercial Law B	2
Corporation Finance B	2
Thesis (Accounting)	6
	14

Elections must be filed, on cards provided for the purpose, at the office of the Director. Elections are made for the year, and must be filed on or before June 1. A record of the elections of First Year students who are candidates for the bachelor's degree in Dartmouth College will be transmitted by the Director to the Dean of the College.

DESCRIPTION OF COURSES

ACCOUNTING AND AUDITING

A. *Theory of Accounting.*

Professor GRAY. First Year, First Semester, 2 hrs.

The work of this course is designed to afford the student a knowledge of the terminology and general principles of the science of accounting. The application of these principles to the elements of a business concern is illustrated by problems. Practice is given in the interpretation of financial statements. Lectures, collateral readings, and reports.

B. *Accounting Practice.*

Professor GRAY. First Year, Second Semester, 2 hrs.

The accounts pertaining to several typical forms of business are conducted to acquaint the student with the technical methods of accounting practice. Special attention is given to the modern forms of principal and auxiliary books of account. Practice in the construction of financial statements is provided.

C. *Advanced Accounting and Auditing: Practice and Analysis.*

Professor GRAY. Second Year, First Semester, 2 hrs.

(*a*) Accounting Practice: illustrating the legal and economic aspects of accounting practice; the conservation of capital, the apportionment of income, the determination of profits, etc.; definitions and forms of accounts; standardization in accounting.

(*b*) Analysis of Accounts: exposition of the objects and methods of analysis, supplemented by the solution of problems.

(*c*) Auditing: theory and practice of auditing, the duties of the auditor, his qualifications and the scope of his work; practical problems.

D. *Special Studies in Accounting.*

Professor GRAY. Second Year, Second Semester, 2 hrs.

A group of courses, each designed to meet the needs of the student preparing to enter a particular business.

(*a*) Cost Accounts: theory and practice; for students specializing in manufacturing or general business.

(*b*) Investment Accounts: methods of accounting for interest-bearing securities.

(*c*) Railroad Accounts: for students preparing for railroad service.

(*d*) Bank Accounts: for those preparing for banking.

(*e*) Accounting methods employed in other lines of business will be taken up when desired.

The devising of systems of accounts by the student is a feature of this general course.

E. *Public Accountancy.*

Professor GRAY. Second Year, First Semester, 2 hrs.

The profession of accountancy, by reason of its high standard of social service and of its increasing importance in the field of business administration, offers attractions to young men of special training and aptitude.

To meet the need for this training, a program of courses and of special work is prescribed for students who plan to enter upon the practice of accountancy. The course is designed to equal the standard of requirements set by the examining boards of those states which prescribe qualifications for the degree of Certified Public Accountant.

Evidence of previous experience and proficiency in practical accounting is required of students electing this course.

MODERN LANGUAGE.

These courses aim to increase the student's knowledge of the grammatical structure of the language and his knowledge of the common idioms; to familiarize him in particular with the vocabulary and the idioms of trade and commerce; to enable him to make use of the trade, commercial and financial periodicals of the language; and to give him practice in the writing of business letters, documents, advertisements and catalogues.

Commercial French.

A and B. *Composition and Conversation.*

Mr. MURRAY. First Year, First and Second Semesters, 2 hrs.

C and D. *Composition and Conversation.*

Mr. MURRAY. Second Year, First and Second Semesters, 2 hrs.

Commercial German.

A and B. *Composition and Conversation.*

Mr. MURRAY. First Year, First and Second Semesters, 2 hrs.

C and D. *Composition and Conversation.*

Mr. MURRAY. Second Year, First and Second Semesters, 2 hrs.

Commercial Spanish.

A and B. *Composition and Conversation.*

Mr. MURRAY. First Year, First and Second Semesters, 2 hrs.

C and D. *Composition and Conversation.*

Mr. MURRAY. Second Year, First and Second Semesters, 2 hrs.

STATISTICS.

A. *Elementary Statistics.*

Professor PERSONS. First Year, First Semester, 2 hrs.

The history, theory, bibliography, and elementary methods of statistics. Statistics of prices, wages, family budgets, public finance, banking, and so on; the graphic method as an aid in the presentation of results; the collection and tabulation of statistical data. Lectures, text-books, and assigned problems. (Mayo-Smith's *Statistics and Economics.*)

B. *Advanced Statistics.*

Professor PERSONS. First Year, Second Semester, 2 hrs.

A course in advanced statistical methods, illustrated by wage, price, financial, industrial, and insurance statistics; frequency curves; the normal curve of distribution; correlation; interpolation; probable errors; curve smoothing; accuracy; and so on. Lectures, assigned readings, and reports. One session each week will be a two-hour laboratory period. (Bowley's *Elements of Statistics;* duplicate copies are provided in the library of the Tuck School.)

LAW.

A and B. *Commercial Law.*

Professor REEVES. Second Year, First and Second Semesters, 2 hrs.

An outline of the main principles of the law of contracts; agency; bailments, including the obligations of common carriers and telegraph companies; bankruptcy and insolvency; insurance; negotiable instruments; partnerships, joint-stock companies, and corporations; the acquisition and transfer of property, and sales of personal property.

C. *International Law.*

Professor REEVES. First Year, Second Semester, 3 hrs.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized States, and their recent modifications by treaty. Recitations and lectures.

D. *Maritime Law.*

Professor REEVES. Second Year, Second Semester, 2 hrs.

This course is offered to students preparing for the Consular Service examination. It considers those phases of Admiralty Law with which it is necessary that a consul should be familiar.

BUSINESS PROCEDURE AND ADMINISTRATION

A. *Theory of Business Administration.*

Professor GRAY. First Year, Second Semester, 2 hrs.

A consideration of the elements of a business with especial reference to a comparison of the points of view of the business man and the economist; a survey of the functions and operations of the various classes of business; the problems of business management, such as the conservation of capital, the proportioning and organizing of factors, and so on; the interrelations of business concerns, with special reference to instruments employed.

B. *Business Management.*

Professor PERSON. Second Year, First Semester, 2 hrs.

(*a*) A correlation with special reference to business management of the most important principles of Economics, Private Finance, and

Accounting. Production; wages and conditions of efficient labor; interest; functions and qualifications of the enterpriser; profits; fixed and variable expenses of production; loan capital and the turnover; time-saving processes and the turnover; theory and methods of advertising.

(*b*) Organization. The plant as related to the business; typical organizations of different forms of business; the interrelations of the personnel of the business force.

(*c*) System. Systems whose object is efficient routine; systems whose object is the collection of statistical records. Details of system: buying; storing; records of materials in process; records of labor; records of work and depreciation of machines; advertising, selling, and the sales force; credit and collections.

CORPORATE ORGANIZATION AND ADMINISTRATION

A. *Industrial Organization.*

Professor DIXON. First Year, First Semester, 3 hrs.

Historical development and analysis of the different forms of industrial organization, including the partnership, joint-stock company, and the corporation, and the later developments, such as the pool, trust, combination, and holding company. Critical discussion of the advantages and disadvantages of recent forms of business organization, illustrated by documents. Elements of the law of corporations, with special reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations, with special reference to taxation. Commerce clause of the Federal Constitution and its growing importance. Lectures, text-books, and assigned readings. (Meade's *Trust Finance*, and Ripley's *Trusts, Pools, and Corporations*.)

B. *Corporation Finance and Investments.*

Professor DIXON. Second Year, First and Second Semesters, 2 hrs.

(*a*) Forms of corporation securities; bankruptcies; reorganizations; receiverships; methods of corporate accounting.

(*b*) Organization and methods of the stock market, and its relation to corporate practice. Brief study of foreign investment markets.

(*c*) History and general principles of investment; classification of investment securities; detailed study of corporation reports from the standpoint of the investor; analysis of the investments of typical institutions, such as savings banks, insurance companies, and educational institutions.

C. *Corporate Administration.*

Professor DIXON. Second Year, First Semester, 2 hrs.

Methods employed in the creation and dissolution of corporations; the problem of capitalization and the valuation of tangible and intangible assets; details of constitution and by-laws; relations of officers and directors; forms of internal organization; practical administration of corporate business; methods of consolidation; reports to public bodies; the problem of publicity.

COMMERCE AND INDUSTRY

A. *National Industrial Efficiency.*

Professor WELLS. First Year, First Semester, 2 hrs.

This course considers social conditions in their relation to industrial efficiency. Starting from the fundamental point of view that the quality of labor is the chief element in industrial efficiency, the course undertakes a concrete study of national characteristics influencing labor conditions; religion; social customs; education; home surroundings; amusements and sports; sumptuary laws; civic administration; factory conditions; institutions for savings and insurance; benevolent agencies; organizations for relief.

B. *Economic Geography.*

Professor PERSON. First Year, First Semester, 4 hrs.

This course aims to bring out the general principles of the relation between man's environment and his industrial life, and then to apply these principles by taking up a study of the various countries as producers and sellers of goods and as markets. While all important regions are considered in an elementary way, a more detailed study is given to the older industrial countries of Central and Western Europe. Among the facts considered are the following: Physical

conditions, geology, soils, rivers, climate; the nature and distribution of extractive and of manufacturing industries; imports and exports; industrial aptitudes; business methods; and national peculiarities that determine the particular classes of goods demanded. Lectures and assigned readings.

C. *Resources and Industries of the United States.*

Professor PERSON. First Year, Second Semester, 4 hrs.

(*a*) A detailed study of the fundamental conditions of the industrial development of the United States, such as geographical, geological, and climatic factors; the extent and distribution of resources; industrial traits; labor conditions; forms of industrial organization.

(*b*) A general survey of the development and present conditions of the more important extractive industries, — agriculture, horticulture, forest industries, fishery industry, and mining.

(*c*) A minute investigation of the development and present condition of typical manufacturing industries, each being considered as to the securing of raw materials, technical processes and costs of manufacture, form of organization, methods of management, the times, places, and methods of the sale of finished products, and as to its general conditions and prospects.

Emphasis is given throughout this course to facts of practical value, and practical use is made of the material in the Commercial Museum.

D. *Commercial History and Policy.*

Professor DIXON. First Year, Second Semester, 3 hrs.

Historical study of the tariff policy of the United States, with comparative study of the policy of related countries; commercial treaties, including the policy of reciprocity; navigation laws, bounties, subsidies, preferential tariffs, and the problem of our merchant marine; the commercial relation of the United States to its recently acquired possessions. Text-book, assigned readings, and reports. (Ashley's *Modern Tariff History.*)

E. *Advanced Commercial Geography.*

Professor PERSON. Second Year, First Semester, 2 hrs.

An exhaustive study of the physical and social conditions of

industry in regions like the Colonies of the United States, Cuba, Central America, South America, South Africa, Australia, and China. This course aims to cover the field from two points of view, studying the existing and prospective conditions of these regions, first, as to markets for the productions of the United States, and, second, as to investments and the establishment of industrial enterprises in these regions.

F. *International Trade.*

Professor PERSON. First Year, Second Semester, 2 hrs.

Beginning with a brief review of the theory of international trade and a brief consideration of the development of that trade during recent years, this course undertakes a concrete study of the present conditions and tendencies in international trade and of the mechanism of trade between nations.

G. *Foreign Commerce of the United States.*

Professor PERSON. Second Year, First Semester, 2 hrs.

(*a*) Detailed study of the methods and forms employed by American merchants in their dealings abroad, including cable codes, orders, invoices, bills of lading, customs formalities, marine insurance, and ship's papers.

(*b*) The customs tariffs of the more important commercial nations, including commercial and reciprocity treaties, bounties, tonnage duties, port regulations, laws governing coastwise traffic.

(*c*) Detailed study of American Commerce with the aid of trade papers, consular reports, and the government publications of various kinds, with a special consideration of the acquisition of new markets by adaptation of products to their needs and of the retention and extension of markets already open.

BANKING.

A. *Money and Banking.*

Dr. HUSE. First Year, First Semester, 3 hrs.

A discussion of the most important features of the institutions of money, banking, and credit, with special reference to their functions in the economic life of to-day. The history of money and banking in

the United States. Description of the monetary and banking systems of important foreign countries. Discussion of practical problems, such as: changes in the value of money and their effects on prices and incomes, bimetallism, inconvertible paper currency, the relation of the sub-treasury system to the supply of money, proposed modifications in the national banking laws. Lectures on monetary and banking history. (*Report of the Monetary Commission*, Dewey's *Financial History of the United States*, and White's *Money and Banking*.)

B. *Banking Problems.*

Professor PERSONS. First Year, Second Semester, 2 hrs.

A discussion of some of the most important banking problems: the functions of commercial banks, trust companies, and savings banks; the relation between banks, the Independent Treasury and the money market; bank examination and supervision; banks and financial panics; currency reform; the functions of clearing houses; the payment of interest on deposits; the competition of trust companies with banks; postal savings banks, and so on. Lectures, assigned reading, and text-book.

C. *Practical Banking.*

Professor PERSONS. Second Year, First Semester, 2 hrs.

(*a*) Examination of the mechanism and methods of different banking institutions with reference to organization, administration, investments, loans and discounts, reserves, deposits, circulation, clearing systems, correspondents, etc. Attention is given to the duties of the various bank officials and the relations of the different departments in typical banks. The main features of the present federal and state regulation of banks are studied, and proposed modifications are discussed. Comparisons are made with foreign banking methods in cases where such comparisons are instructive.

(*b*) Detailed study of the New York money market, supplemented by a general survey of the money market in London, Paris, and Berlin. Current fluctuations in money rates are recorded and analyzed. The relation of the money market to investment and speculation is emphasized.

D. *Foreign Exchange.*

Professor PERSONS. Second Year, Second Semester, 1 hr.

An advanced course, of use to men planning to enter banking or foreign trade. The course includes the study of the causes of fluctuations in exchange rates, gold shipments, international investments as affecting the settlement of balances, the monetary systems of foreign countries, and the actual methods of buying and selling foreign exchange.

TRANSPORTATION.

A. *Transportation.*

Professor DIXON. First Year, Second Semester, 3 hrs.

Steam railways. (*a*) The railway problem of the United States, including theories of rates, combination and pooling, consolidation, community of ownership, and government ownership or control, involving a careful consideration of the work of the Interstate Commerce Commission and of State commissions. (*b*) A comparative study of the railway systems of other countries, especially England, Germany, France, Canada, and the Australian Commonwealth, with a consideration of the economic significance of the world's great railway systems.

Transportation and communication other than by steam railways. (*a*) Lake, river, and canal transportation in the United States and other countries. (*b*) Ocean transportation with special reference to its relation to the transportation systems of various countries. (*c*) Interurban railways and their growing competitive power, telegraphs telephones, and cables. Lectures, text-book, and assigned readings and reports. (Johnson's *American Railway Transportation* and Smith's *Organization of Ocean Commerce.*)

B. *Interstate Commerce Act.*

Professor DIXON. First Year, Second Semester, 2 hrs.

A critical study of the Act to Regulate Commerce with only slight attention to its history and with particular reference to its present form as amended. The course will treat of the administration of the Act by the Interstate Commerce Commission, of its judicial interpretation by the courts, and of the development of its statistical and accounting features.

C. *Railroad Service.*

Professor DIXON. Second Year, First Semester, 2 hrs.

(*a*) Organization. The organization of a railroad, including its charter rights, powers and duties of stockholders; internal organization for business purposes with the various plans on different systems; officers and employees and their duties; relations of employees to their employment, including examinations for employment, rules of discipline, relief departments and pensions.

(*b*) Operation. Movement of trains, cars and power, problems of loading, car accounting and interchange, including the discussion of mileage *vs. per diem* payment, duties of employees engaged in operation.

(*c*) Traffic. Rules and regulations governing freight traffic, discussion of passenger, mail, and express service, methods of traffic development; methods of rate-making and various kinds of rates; bills of lading and other forms used in traffic handling; fast freight lines, traffic associations, pools, and other forms of railroad co-operation.

(*d*) Mechanics. Study of the elements of railroad construction and maintenance and their costs. Details of locomotives and cars, their use, construction, and repair. Modern mechanical and safety devices, including brakes, couplers, signalling systems, and the like. Purchasing Department, with consideration of properties of materials and railroad supplies. This section of the work will be conducted in part under Course G (2d part) in the Thayer School of Civil Engineering under the title "Economics of Location, Construction, and Maintenance of Railways."

(*e*) Finance and Statistics. (1) *Accounting and Auditing.* Organization of this department with a study of its duties and the methods employed. (2) *Statistics.* Careful study of the statistical results of railroad operation and management, including the significance of the various statistical units and averages used. Reports made by railroads to the Interstate and State Commissions. (3) *Finance.* Interpretation of railroad reports, including income accounts and balance sheets and determination of the different policies pursued as to maintenance and betterments. The more general discussion of capitalization, reorganization, and the like, will be found under Corporate Organization B.

(*f*) Legal. The rights of railroads under common and statute law, their obligations to employees and shippers, taxation, relation to Interstate and State Commissions.

INSURANCE

A. *History and Theory of Insurance.*

Professor PERSONS. First Year, Second Semester, 2 hrs.

This course considers the theory and history of insurance; life, fire, and casualty insurance; public control of insurance companies; the construction of mortality tables, computation of reserves, premiums, surplus, endowments, and so on. Lectures and text-book. (Moir's *Life Insurance Primer.*)

B. *Insurance Economics and Mathematics.*

Professor PERSONS. Second Year, First Semester, 2 hrs.

(*a*) The theory of insurance; the development of insurance companies; the various systems of insurance; public control of insurance companies; insurance finance; and related subjects.

(*b*) The mathematics of compound interest, including annuities certain. This part of the course may be taken to advantage by students who are not specializing in insurance.

(*c*) The theory of probabilities; the construction of mortality tables; the computation of reserve, surplus, premiums, endowments, dividends, and the like. For this part of the course a knowledge of Calculus is desirable.

POLITICAL SCIENCE AND HISTORY

A. *American Government.*

Professors REEVES and UPDYKE. First Year, First Semester, 3 hrs.

A Study of American Political Institutions, including (*a*) a brief introduction to Political Science, describing its nature, relation to other social sciences, and the appropriate method for the study of its phenomena; (*b*) an historical survey of the origin and development of government, both local and general, in the United States; (*c*) a detailed study of the organization and actual working of local, state, and federal governments as they now exist, and their relation to each other and to the individual. The purpose of this course is to acquaint students with some of the leading principles of Political Science, and to prepare them by a study of the nature and tendencies of popular government for the intelligent discharge of consular duties. Recitations and lectures with collateral readings and reports.

B. *American Diplomacy.*

Professor REEVES. First Year, Second Semester, 3 hrs.

A survey of the foreign relations of the United States from the Revolution to the close of the Spanish War, with special reference to territorial expansion, the Monroe Doctrine, the Isthmian Canal, the Fisheries, the Great Lakes, and the diplomacy of the Civil War. Lectures, readings, and reports upon assigned topics.

C. *Spanish-American Republics and the Far East.*

Professor UPDYKE. Second Year, Second Semester, 2 hrs.

The first half of this course will be devoted to a study of the important political history of the Spanish-American republics since 1850, an examination of their systems of law and government, and a discussion of their present economic and social conditions.

The second half of the course will consist of a discussion of the political and economic conditions in the states of the Far East and in the oriental dependencies of the European states and of the United States. The international relations between China and Japan and the other states interested in the orient will be treated. Lectures, readings, and reports.

THESIS

One of the requirements for the degree of Master of Commercial Science is a thesis. This thesis must represent the investigation of some business problem, preferably a problem pertinent to the field of business which the student intends to enter. Careful work is required in the preparation of the thesis. Each student is assigned to an instructor who personally directs his investigations. The requirement of a thesis serves a twofold purpose. First, it enables the School to estimate the ability of the student to make investigations of a professional character and to draw conclusions; second, it gives the instructor who is directing the investigation of a student the opportunity for personal instruction in that field to which the subject of the thesis pertains. The preparation of a thesis represents practically a course of personal instruction in the field in which the student is specializing.

TEACHERS' SEMINAR

A seminar for students preparing to teach commercial subjects, conducted by the members of the Faculty of the Tuck School, in which the various subjects studied in the Tuck School are reviewed. A critical study is made of standard text-books and of methods of selection and presentation of the most important topics.

JOURNAL CONFERENCE

In order to keep the students acquainted with important events of trade, commercial, and financial interest, a conference of students and instructors is held periodically to discuss the leading articles and news items of technical papers and magazines.

EQUIPMENT OF THE AMOS TUCK SCHOOL

BUILDING. A second gift from Mr. Tuck provided the funds for the construction and maintenance of a building specially adapted to the work of the School. Tuck School is three stories high, the main portion one hundred feet front by fifty feet, with an addition at the rear sixty by forty feet of the same height as the main building. The first floor contains the administrative offices, instructors' offices, recitation rooms, a seminary room, and a lecture room equipped with projecting and reflecting apparatus and seating two hundred and seventy-eight persons. The second floor contains additional recitation rooms, offices, an accounting room, and a library containing books, periodical literature, trade papers, and other material pertinent to the work of the School. The third floor of the building is devoted principally to the uses of a commercial museum. On this floor are also a dark room, a work room for preparing exhibits and charts, and, opening into the museum, a recitation room in which are conducted those classes requiring special use of the museum.

LIBRARY. The library of the Tuck School contains some ten thousand volumes on subjects of an industrial and commercial nature. Because its instruction is characterized by independent investigation on the part of the student, the School gives particular attention to the accumulation of technical periodical literature. The library contains files, in some cases practically complete, of commercial, financial, and trade publications, such as *The Commercial and Financial Chronicle*, *The London Economist*, *The Statist*, *L'Économiste Français*, *The London Bankers' Magazine*, *The New York Bankers' Magazine*, *Bradstreets*, *The Railway Age*, *The Railroad Gazette*, *The Journal of the Institute of Actuaries;* the consular reports of the United States, Great Britain, Germany, France, Belgium, and Austria Hungary; the reports of chambers of commerce, produce exchanges, etc., of the larger cities; the reports of state banking, insurance, railroad, and industrial commissioners; and the government reports, relating to industry and commerce, of the United States and many

foreign governments. The general library of Dartmouth College in Wilson Hall is available for Tuck School students.

COMMERCIAL MUSEUM. The School plans to make its commercial museum an important instrument of instruction. It contains exhibits of domestic industries, comprising samples of raw materials, partly finished and finished products, by-products, specimens showing methods of packing, photographs, charts, maps, and other illustrative material.

LANTERN SLIDES. The School has about two thousand lantern slides for use in instruction. The number is being constantly increased, as the School manufactures the slides for its own use.

APPARATUS. The School is equipped with two combination projecting-reflecting lanterns, a Comptometer, and a Thacher's Calculating Machine.

GENERAL REGULATIONS

ELECTIONS. See section on Courses of Instruction.

STANDING. The standing of a student is his standing for the group elected; *i. e.*, is the average of the marks for the several courses making up the group, each course having weight in proportion to the number of exercises assigned to it.

Of a student who is candidate for a degree in the College, the only mark reported by the School to the Dean of the College is the group mark computed as described above.

A student who fails to maintain a standing of 70 per cent may be dismissed from the School.

ABSENCE. Extensive absence, whether excused or not, may be regarded as indicating a lack of interest in the work, or may in the judgment of the Faculty render it impossible for the student to continue the course with profit. An excessive number of absences will render the student liable to dismissal from the School.

EXAMINATIONS. Examinations are held at the end of each semester. In the Second Year examinations in courses which do not extend through the semester are held at the conclusion of each course.

The final examinations of the Second Year are both oral and written, and cover the work of the year. These oral examinations are conducted in the presence of a committee of the Faculty by the instructor in whose department the principal part of the work of the student falls.

DEGREE. The degree Master of Commercial Science is conferred upon candidates who have completed the work of the School, and have with credit passed all examinations and presented and defended a satisfactory thesis.

TUITION AND FEES. The tuition is one hundred dollars. A further charge of twenty-five dollars is made for certain privileges, including the use of the College library, membership in College Hall, and the various advantages growing out of the increase of the College plant. This one hundred and twenty-five dollars must be paid in equal semi-annual instalments on October 1st and March 1st of each year. A fee

of ten dollars is charged for the degree. This and all other College fees must in all cases be paid into the College treasury before the candidate is permitted to take his final oral examination.

THESIS. The subject of the thesis must be announced to the Director as early as the 15th of November of the year in which the student expects to take the degree.

The thesis must be completed and put in the hands of the Director as early as the 1st of April of that year.

The thesis, after acceptance by the instructor concerned, must be read and defended before a committee of the Faculty.

Every candidate for the degree shall deposit a typewritten copy of his thesis in the library of the School before being permitted to take his final oral examination for the degree.

MISCELLANEOUS INFORMATION.

EXPENSES. Tuition and fees amount to one hundred and twenty-five dollars. Board may be secured for three to five dollars a week; room and light for thirty-five to fifty dollars a year. A college dormitory is reserved for students of the School.

The total expenses of a student will vary from two hundred and seventy-five to five hundred and fifty dollars per year, the most variable elements being room and board.

REMUNERATIVE WORK. Six positions, worth one hundred and twenty-five dollars each and requiring services connected with the administration of the School, are open to Tuck School students. These positions are as follows:—

1. One assistant to the Director, requiring services in the office of the Director.

2. Three assistants in the library, requiring services connected with the administration of the library.

3. Two assistants in the commercial museum, requiring services in connection with the administration of the museum.

Applications must be made on blanks furnished by the Director, which must be accompanied by records of attainments and testimonials in respect to character and business aptitude.

For further information, address

HARLOW S. PERSON, DIRECTOR,
HANOVER, N. H.

SUMMER SCHOOL

CALENDAR

1908 . . . . . July 6 to August 15.
1909 . . . . . July 7 to August 17.

SUMMER SCHOOL

FACULTY

SESSION OF 1908

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.

THOMAS WILSON DORR WORTHEN, A.M., *Cheney Professor of Mathematics.* DIRECTOR *of Summer School.*

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.*

JOHN HIRAM GEROULD, PH.D., *Assistant Professor of Biology (Zoölogy).*

ASHLEY KINGSLEY HARDY, PH.D., *Assistant Professor of German and Instructor in Old English.*

HERMAN HARRELL HORNE, PH.D., *Professor of Philosophy.*

NORMAN EVERETT GILBERT, PH.D., *Assistant Professor of Physics.*

SIDNEY BRADSHAW FAY, PH.D.. *Assistant Professor of History.*

PRESCOTT ORDE SKINNER, A.M., *Assistant Professor of the Romance Languages (French and Spanish).*

CHARLES ERNEST BOLSER, PH.D., *Assistant Professor of Chemistry.*

LEON BURR RICHARDSON, A.M., *Instructor in Chemistry.*

ARTHUR HOUSTON CHIVERS, A.M., *Instructor in Biology.*

STUDENTS

Abrams, Jessie Ladd, *History, English*, Hartford, Conn.
Adams, Elizabeth Walker, Teacher, Public School 56, *English*, Brooklyn, N. Y.
Adams, George Cheney, *French, Mathematics*, West Derby, Vt.
Anthes, Katherine Louise, *Education*, Brooklyn, N. Y.
Archer, Ina Caroline, Teacher, Public School 97, *Education, History*, Brooklyn, N. Y.
Ashmun, Jennie Cordelia, Teacher, Public School 76, *History*, Brooklyn, N. Y.
Atwood, William Thompson, Student, *English, Physics*, Ware, Mass.
Averill, Hiram Harrison, A.B. (Dartmouth), Teacher, Cascadilla School, *Mathematics*, Ithaca, N. Y.
Barton, Aïda Winifred, Teacher, Public School 68, *English*, Brooklyn, N. Y.
Beckett, Bertram, Student, *English*, Cambridge, Mass.
Bedell, Alice Margaret, Teacher, Public School 55, *Education, German*, Brooklyn, N. Y.
Beecher, H. Emily, Teacher, Packer Collegiate Institute, *Botany*, Brooklyn, N Y.
Blake, Winifred Ballard, *Education, History*, Brookline, Mass.
Boerker, Richard Hans Donai, *Biology, Mathematics*, Brooklyn, N. Y.
Bolen, Louise Mary, *Education*, Brooklyn, N. Y.
Bostwick, Irene Frances, *Education*, Brooklyn, N. Y.
Brandt, Wilhelmine Sophie, Teacher, Adelphi Academy, *Spanish*, Brooklyn, N. Y.
Brett, Chester Snow, Student, *English, Biology*, Boston, Mass.
Buck, Malcolm Rodney, *English, Biology*, Reading, Mass.
Burns, George Thomas, Student, *English, Biology*, Ayer, Mass.
Campbell, Courtney, *English, Biology*, Washington, D. C.
Campbell, Florence, Teacher, Public School 24, *Education, French*, Brooklyn, N. Y.
Carmichael, Anna Mary, Teacher, Public School 24, *Education, French*, Brooklyn, N. Y.
Caverly, Harley Tuttle, Student, *English*, Rutland, Vt.
Chaffee, Mertin Wakefield, A.B. (Univ. of Vt.), Principal, Peacham Academy, *Education, Physics*, Peacham, Vt.
Chapin, Edward Luther, *English, French*, Southbridge, Mass.

Claffy, Mary Josephine, Teacher, Public School 47, *Spanish*, Brooklyn, N. Y.
Clark, Katharine Virginia, *English*, *History*, Mt. Vernon, N. Y.
Clarke, Elizabeth, Teacher, Public School 147, *Education*, *English*, Brooklyn, N. Y.
Colburn, Mary Ethel, A.B. (Univ. of Vt.), Teacher, *Education*, *History*, Ocean City, N. J.
Conner, Frances Sharpe, Teacher, Central High School, *Education*, *History*, Scranton, Penn.
Crowell, Edna Louise, A.B. (Radcliffe), Teacher, Public School 79, *Education*, Brooklyn, N. Y.
Cummings, Clarence Edwin, Student, *English*, *Chemistry*, Beachmont, Mass.
Davis, Edward A., *Mathematics*, *Physics*, Newton, Mass.
Dodge, Cecil Pillsbury, *French*, *Mathematics*, *Physics*, Lowell, Mass.
Donaldson, Isabel Marshall, Teacher, Public School 56, *History*, *English*, Brooklyn, N. Y.
Dorr, Allen Everett, Student, *English*, *Chemistry*, Richmond, Mass.
Downey, Joseph Elliott, Student, *English*, *Biology*, Newtonville, Mass.
Downing, Bessie Fidelia, Teacher, *History*, *English*, New Brighton, N. Y.
Driver, Harry Herman, Student, *English*, *Chemistry*, Allegheny, Penn.
Dunfield, Frank Freeman, A.B. (Bates), Principal, High School, *English*, Stafford Springs, Conn.
Dunn, Morley Knight, A.B. (Dartmouth), Principal, Public School, *Education*, *English*, Borough of Queens, New York, N. Y.
Edwards, Joseph Henry, A.B. (Dartmouth), Teacher, High School, *Mathematics*, Princeton, Me.
Emerson, Emily Sophia, A.B. (Smith), *English*, Hanover, N. H.
Elder, Maureen, A B. (Adelphi), Teacher, Girls' High School, *Education*, *Mathematics*, Brooklyn, N. Y.
Erhard, Emile Henri, Student, *Physics*, *Biology*, Brookline, Mass.
Ernesty, Caroline Louise, Teacher, Crosby High School, *German*, Waterbury, Conn.
Farwell, John Thurston, Student, *English*, *Biology*, Berlin, N. H.
Fenton, Ira Ellsworth, *English*, *Biology*, So. Hadley Falls, Mass.
Fleisher, Horace Teller, Student, *Biology*, *Chemistry*, Philadelphia, Penn.
Follansbee, Morrill Middleton, Student, *Biology*, Highland Park, N. Y.
Golde, Walter Hermann Julius, Student, *History*, *German*, Brooklyn, N. Y.
Griffin, Michael Bernard, Student, *Biology*, Newmarket, N. H.
Harding, Charles Francis, B.S. (Worcester Poly. Inst.), Professor of Electrical Engineering, Purdue University, *Mathematics*, Lafayette, Ind.
Hawes, Herbert Richardson, Student, *English*, *Biology*, Worcester, Mass.
Hildreth, Bertha, Teacher, High School, *English*, Lisbon, N. H.
Hobbs, Alice Emily, Teacher, Training School for Teachers, *History*, *English*, Brooklyn, N. Y.
Hobbs, Amy Luckey, Teacher, Public School 106, *English*, Brooklyn, N. Y.
Holland, Lillian Charlotte, Teacher, Public School 10, *History*, Brooklyn, N. Y.

Howe, Daisy Abigail, A.B. (Elmira), Teacher, High School, *French*, *Mathematics*, Lisbon, N. H.

Howe, Frank Martin, A.B. (Dartmouth), Teacher, Kimball Union Academy, *Physics*, *Mathematics*, Meriden, N. H.

Huselton, James Shaw, Student, *English*, *French*, Butler, Penn.

Hutchins, Henry Clinton, Student, *English*, *Chemistry*, Boston, Mass.

Judd, Harold Lewis, Student, *Physics*, *Chemistry*, Cleveland, O.

Keith, Roger, *English*, *Biology*, Campello, Mass.

Kennedy, George Francis, Student, *English*, *Biology*, Roxbury, Mass.

Kidder, Edward Wintrode, *English*, *French*, Amherst, Mass.

Laton, Fred Dighton, Student, *English*, *Biology*, Nashua, N. H.

Lee, Walter Wallace, Jr., Student, *Biology*, Malden, Mass.

Locke, Richard Baldwin, Student, *Physics*, *Chemistry*, Belmont, Mass.

Lyon, Graham Spear, Student, *English*, *German*, Legonier, Ind.

McAllaster, Howard Edward, Student, *Biology*, Winnetka, Ill.

McClelland, Annie Hait, Teacher, Public School, *History*, Newark, N. J.

McElaney, Hugh Joseph, A.B. (Boston Coll.), Teacher, Dudley School, *Education*, *Chemistry*, Boston, Mass.

McGinnis, Henry James, Student, *Chemistry*, Waterville, Me.

McLane, Clarence James, Teacher, High School, *Education*, *History*, Waitsfield, Vt.

Mahler, Alice Caroline, Principal, Bishop St. School, *Education*, Waterbury, Conn.

Marion, Gardner Sparhawk, Student, *Biology*, *Chemistry*, Brighton, Mass.

Merrill, Guy Rindge, Student, *English*, Cambridge, Mass.

Moe, William Collins Hainsworth, *English*, *Biology*, North Pomfret, Vt.

Moody, Howard Gage, Student, *English*, Derry, N. H.

Moore, Frank Cochrane, A.B. (Dartmouth), Instructor in Mathematics, Dart. Coll., *Mathematics*, Hanover, N. H.

Morton, Howard Nowell, *French*, Lowell, Mass.

Nelson, Earl Carlton, Student, *Education*, *French*, Hanover, N. H.

Patterson, William Hubbard, Student, *Physics*, *Biology*, Chicago, Ill.

Peck, Klara, Teacher, Public School 64, *Education*, Brooklyn, N. Y.

Plambeck, Emma, Teacher of German and French, *English*, *Spanish*, New York, N. Y.

Powers, Florence May, A.B. (Adelphi), Teacher, Training School for Teachers, *Education*, *English*, Brooklyn, N. Y.

Quint, Walter Southard, *French*, *Mathematics*, West Medway, Mass.

Randerson, John Howard, Student, *English*, *Mathematics*, Albany, N. Y.

Reed, Henry Ransford, Student, *English*, *Biology*, Arlington, Mass.

Reynolds, Cora Olmstead, Teacher, Town Plot School, *Biology*, Waterbury, Conn.

Robinson, Josephine Alberta, A.B. (Oberlin), Professor of Mathematics, Berea College, *English*, *Mathematics*, Berea, Ky.

Saville, Clark, Student, *History*, *English*, Quincy, Mass.

Secor, May, Teacher, Public School 81, Borough of Queens, *French*, New York, N. Y.

Shattuck, Edward James, Student, *Biology*, Norwood, Mass.
Shipley, George Elliott, Student, *Biology*, Oak Park, Ill.
Skinner, Alice Carrick, *English*, Hanover, N. H.
Skinner, Alice Evelyn, Teacher, Training School for Teachers, *Education*, *Physics*, Brooklyn, N. Y.
Smyth, Joseph Mathews, Student, *Chemistry*, *Physics*, Whitinsville, Mass.
Sporborg, Arthur Joseph, Student, *English*, *Physics*, Albany, N. Y.
Stoddart, Annette Tilly, Teacher, Public School 26, Borough of Queens, *Education*, *History*, New York, N. Y.
Thomas, Helen, A.B. (Wellesley), Teacher, Lexington High School, *Education*, *English*, Dorchester Centre, Mass.
Tong, Ging Hee, *Physics*, *Mathematics*, Shanghai, China.
Tong, Young Lee, *Mathematics*, *Biology*, Shanghai, China.
Tsao, Chin Kien, *History*, Philadelphia, Penn.
Tufts, Joseph Anthony, Student, *English*, Boston, Mass.
Walker, Herbert Moore, Student, *History*, *English*, Goff's Falls, N. H.
Wells, Ruth, *French*, Hanover, N. H.
Whitcomb, Paul, Student, *Biology*, Boston, Mass.
White, Arthur Cordingly, Student, *Chemistry*, *Biology*, Roxbury, Mass.
Wilson, Earl Ellwyn, A.B. (Dartmouth), Teacher, High School, *Education*, South Royalton, Vt.
Winter, Alfred Robinson, A.B. (Brown), Principal Washington St. Grammar School, *Education*, *History*, Medford, Mass.
Wood, Frank Edgar, A.B. (Colby), Principal of Academy, *Chemistry*, Haverhill, N. H.
Worthen, Mary, *French*, Hanover, N. H.

GENERAL STATEMENT

The principal aim of the Summer School is to meet the wants of teachers and advanced students.

The work for teachers is of three grades:

1. The discussion of the subject-matter of actual instruction in the public schools, with correlation of subjects and methods of instruction.

2. Somewhat advanced work along the same lines as the secondary school work, the equivalent of the College Major in these subjects.

3. Advanced courses, which count toward the Master's degree for college graduates.

In all of the courses the attempt is made to meet the needs of the individual students or groups of students working with the same end in view, and conferences are arranged so as to do, as far as possible, any preliminary work which may be found necessary, or any more advanced work which may be found practicable.

THE MASTER'S DEGREE

The basis of the Master's degree in time is one year of work of graduate grade in residence at the College. Three sessions of the Summer School with intervening readings may be made the equivalent of the year of residence work. The work in Education, History, English, French, Mathematics, and Chemistry will be arranged progressively so that it will be possible to enter upon an extended course continuing for at least three sessions in these departments. Corresponding courses will be given in other departments as they may be called for.

Graduate students devoting a portion of this year of residence to giving instruction, and students completing the undergraduate work in less than four years, and having to their credit at graduation addi-

tional courses which count toward a Master's degree, may complete the work for the Master's degree in the Summer School.

For the requirements for the Master's degree see College Catalogue and circular, which will be sent on application.

Session of 1909

The next session will open on Wednesday, July 7, 1909.

The classes will meet five times per week for six weeks, unless otherwise stated in connection with the courses, in periods varying from one hour to two hours for recitation and lecture courses, and from two to four hours for laboratory courses. Saturdays are left open for excursions or recreation.

Admission

All courses are open to teachers and others who are able to take them, and entrance examinations are not required.

For Dartmouth College students the prerequisites for courses shall be the same as for the corresponding courses in College.

Undergraduates whose work in their classes has been satisfactory may take courses in the Summer School, for which credit will be given toward the Bachelor's degree. The admission of undergraduates to the Summer School is in charge of the Administration Committee, and all applications must be made before July 5.

COURSES OF INSTRUCTION, 1908

Education — Professor Horne

It is proposed to organize the work of successive summers in this department with reference to each other. The aims of such organization are: (1) to offer in a series of summers a comprehensive view of the field of education, thus avoiding, so far as possible, offering the same work in successive summers, and permitting work to be done in this department by persons attending successive sessions; and (2) to permit students and teachers to receive credits in this subject toward Bachelor's or Master's degree. In any case it is recommended that

teachers or those intending to teach divide their time between courses in Education and in the subject they teach.

The cycle of study may embrace three or four summer sessions, two courses usually being offered each summer. In 1907 courses were given in the Principles of Education, School Organization and Management, and Psychology. In 1908 courses were given in the History of Modern Education, and Educational Psychology. In the summer of 1909 it may seem advisable to offer two or more courses from the following list: History of Ancient and Mediæval Education, School Hygiene, General and Special Methods, and Psychology. Each course meets five times a week for six weeks. The courses in the History of Education, Principles of Education, Educational Psychology, and Psychology cover in a more rapid way the corresponding courses given in Dartmouth College.

During the summer of 1908 the following courses were given:

1. *Education 3.* The History of Modern Education. A brief review of the leading tendencies, systems, and educators from the Renaissance to the present time. Lectures and reports. Thirty hours. Text: Monroe, "Text Book in the History of Education."

2. *Education 4.* Educational Psychology. A brief account of the nature of the psychical processes with which teachers are concerned and the best ways of dealing with them. The psychological basis of methods of teaching. Lectures and reports. Thirty hours. Text: Horne, "Psychological Principles of Education."

History — Professor Fay

1. *English History.* A course for teachers. In this course the narrative history of England was given by the use of a modern text-book, parts of which were assigned from day to day, and tested by quiz and discussion. A large part of the daily class-room work consisted of informal lectures by the instructor, and reports upon assigned readings by members of the class, especially upon geographical, social, economic, and constitutional questions in English History. The range of subjects assigned for reading and the considerable number of books on English History in the College Library offered an opportunity for teachers, who were properly prepared, to do fairly specialized work.

2. *Modern European History.* The first part of this course aimed to explain the political, social, and intellectual conditions which caused the French Revolution, and to give a brief narrative of the French Revolution itself and of the rise and fall of Napoleon.

The second part traced the formation of the present States of continental Europe, and closed with some account of the actual government of each, and an introduction to an understanding of the political conditions and questions of the Europe of to-day.

This was made equivalent to Course 9, page 150, College Catalogue, by those who were properly prepared.

ENGLISH — PROFESSOR EMERY

1. *Victorian Literature and Literary Criticism.* This course embraced the study of the history of English Literature during the Victorian period, together with critical readings of the masterpieces. The principles of literary criticism were discussed, in the endeavor to formulate some canons of judgment of literary excellence, and then to apply these canons to the criticism of the principal works of the great writers of this period.

This course was made equivalent to English 6, page 111, College Catalogue.

2. *Shakespeare.* The aim of this course was to familiarize the student with the various methods of study of the dramas of Shakespeare, and to study intensively some of his greater plays, with attention to chronology, sources, technique, and philosophy.

This course was made the equivalent of English 22, page 113, College Catalogue; and was not open to undergraduates of less than 80 hours' credit.

FRENCH — PROFESSOR SKINNER

1. *French Composition and Reading.* This course was as usual adapted to the needs of the student. The work consisted in the main of a careful review of French syntax, illustrated by abundant practice in composition. In addition there was read a considerable quantity of difficult modern French. Course 3 or 5, page 115, College Catalogue.

2. *Composition and Conversation.* Besides work in translating English into French, there was practice in familiar French conversation, based on Kron's *French Daily Life.* Course 7, page 116, College Catalogue.

SPANISH — PROFESSOR SKINNER

1. The course was for beginners. The work was in Spanish grammar, composition, and translation, and was adjusted to the needs of the members of the class. Course 1, page 119, College Catalogue.

2. *Cervantes' Don Quixote.* In this course the whole first part of *Don Quixote Lazarillo de Tromes* and two plays of Calderon were carefully translated. In addition there were readings in Ticknor's *History of Spanish Literature.* Course 4, page 116, College Catalogue.

GERMAN — PROFESSOR HARDY

This course consisted of composition, translation, reading aloud with attention to phonology, and such use of German in conducting the class as seemed practicable. Themes in German and reports on outside reading were required from the more advanced students.

The books used in class were Von Jagemann's *Elements of German Syntax*, and *Materials for German Prose Composition*, and Ludwig's Novel, *Zwischen Himmel uud Erde.* The course united the aims of Courses 7 and 13 in the College Catalogue.

MATHEMATICS — PROFESSOR WORTHEN

1. *Course for Teachers.* A presentation and discussion of the subject matter of elementary Mathematics, with comparison of algebraic and geometric methods in the theory and in the common applications to practical problems. Special attention was given to the graphic solution of equations. Outlines for Arithmetic, Algebra, Plane and Solid Geometry, and Trigonometry, were considered.

2. *Analytic Geometry.* An elementary course involving the use of rectangular and polar systems. It included right lines, conic sections, the more important higher plane and transcendental curves. The principal object in view was the work in advance, but it had a direct bearing on the teaching of the earlier Mathematics, especially Algebra.

This was made equivalent to Course 7, page 127, College Catalogue.

3. *Differential Calculus.* An elementary course including applications to the development of functions, evaluation of indeterminate forms, maxima and minima functions, and the investigation of plane curves.

This was made equivalent to Course 8, page 127, College Catalogue.

Thorough preparation for teaching mathematics in high schools and academies requires substantial courses in Analytic Geometry and Calculus; Courses 2 and 3 are intended to meet this need.

4. *Integral Calculus and Differential Equations.* A course of advanced grade.

5. An Introductory course in Theory of Functions of a Real Variable. This course counted toward the Master's degree for those who were qualified to be candidates.

PHYSICS — PROFESSOR GILBERT

1. *Entrance Physics.* An elementary course, recitations and laboratory work, covering the usual requirements for entrance to College.

2. *Course for Teachers.* This was largely a laboratory course intended for teachers of elementary Physics. Experiments were selected to meet the desires of each student. Considerable attention was given to lecture table experiments suitable for the general classroom.

3. *Practical Physics.* A course in the theory and use of instruments of precision and in the experimental verification and application of physical laws pertaining to mechanics and sound. This was made Course 3, page 131, College Catalogue.

4. *Practical Physics.* A continuation of Course 3 into the realm of heat, electricity, magnetism, and light. This was made Course 4, page 132, College Catalogue.

CHEMISTRY — PROFESSOR BOLSER AND MR. L. B. RICHARDSON

1. *Elementary Chemistry.* Lectures, recitations, and laboratory work. Special emphasis was laid upon the general principles of Chemistry, the notation in its experimental and arithmetical meaning, and the nomenclature and terminology in their applications. This was made Course 2, page 136, College Catalogue.

2. *Qualitative Analysis.* A study of the metals and their compounds by lectures, recitations, and by Qualitative Analysis in the laboratory. This was made Course 3, page 136, or Course 4, page 137, College Catalogue, by those who were well prepared.

3. *Quantitative Analysis.* Elementary and advanced gravimetric and volumetric methods. This Course was made Course 7, page 137, or Course 8, page 138, College Catalogue, by those who were adequately prepared.

4. *Organic Chemistry.* A course in theory and laboratory work. This course was made Course 5, or Course 6, page 137, College Catalogue, by those who were adequately prepared.

5. The Chemical Department will forward in every practicable way the plans of advanced students who may wish to work out a coherent course to the Master's degree. It is probable that a diligent student who begins upon the foundation desired by the Chemical Department, viz., the equivalent of Courses 2–8 of the College Catalogue, could be recommended for the Master's degree after three summer sessions.

The chemical laboratories are open during the forenoons, and the instruction being essentially individual can be adapted to students at almost any stage.

Botany — Mr. Chivers

1. *Elementary Botany.* An introductory course giving a general survey of the vegetable kingdom. The lectures treated of the physiology, morphology, and reproduction of plants, special attention being paid to the lower plants, and to the relation of fungi and bacteria to fermentation, putrefaction, and disease. The laboratory work consisted largely of the microscopic examination of some of the principal representatives of the vegetable kingdom. (Berger and Davis' *Text-book of Botany.*) This course was made Course 1, page 140, College Catalogue.

2. *Phanerogamic Botany.* A general course on the higher plants. It treated of the morphology and development of the flowering plants, embracing the main topics of their structure, functions, and habits, together with their classification, distribution, adaptations, and uses. Opportunity was given for the preparation of an herbarium. A desirable course for those wishing to obtain a general knowledge of the higher plants. This was made equivalent to Course 6, page 142, College Catalogue.

Zoölogy — Professor Gerould

1. This was a course adapted to the needs of teachers of Zoölogy in High Schools. It consisted of laboratory work and lectures on the comparative anatomy, physiology, and embryology of invertebrate animals. Attention was given to the interrelation of the various phyla, to the maturation, fertilization, and cleavage of the ovum, the formation of germ layers, larval development, and to the relation of each species to its environment. Several examples from each of the

more prominent phyla were studied in the laboratory, especial attention being given to insects and other arthropods.

This course was equivalent to Course 3, page 141, College Catalogue.

2. *Evolution and Bionomics.* The factors of organic evolution and the relations of organisms to their environment were studied in this course. The various theories of species-forming, variations, heredity, ontogenetic development, geographical distribution, animal societies, parasitism, the colors of animals, instincts, and intelligence were discussed. Text: Jordan and Kellogg's *Evolution and Animal Life.* This was a course of thirty hours, the equivalent of a two semester hours college course.

EVENING LECTURES

During the session a series of lectures was given on Wednesday evenings.

LIST OF SPEAKERS AND SUBJECTS, 1908

Professor H. H. Horne, "Pragmatism and Education."

Professor E. J. Bartlett, "A Non-technical Talk on Teaching and Teachers."

Professor H. E. Keyes, "The Beginnings of Christian Art."

Professor J. H. Gerould, "Color in the Animal Kingdom."

The libraries, reading and reference rooms, museum, and gymnasium are open to students of the Summer School.

The tuition fee for the session is $25 whether one or more courses be taken, and the laboratory fees are those charged by the departments for the corresponding courses in College.

The next session will open July 7, and close Aug. 17, 1909. A circular containing an extended description of the courses will be issued at an early date.

For further information, address Professor T. W. D. WORTHEN, Director, 11 Webster Avenue, Hanover, N. H.

ASSOCIATIONS OF ALUMNI

ASSOCIATIONS OF ALUMNI

THE GENERAL ASSOCIATION

FOUNDED IN 1854

President, FRANK N. PARSONS, '74.

Vice-Presidents, { THOMAS W. PROCTOR, '79. / JOSEPH A. DE BOER, '84.

Secretary, FRANK A. SHERMAN, '70, Hanover, N. H.

Statistical Secretary, JOHN M. COMSTOCK, '77, Chelsea, Vt.

Treasurer, PERLEY R. BUGBEE, '90, Hanover, N. H.

Executive Committee:

ISSAAC F. PAUL, '78 (*Chairman*).
HORACE G. PENDER, '97, *Secretary*.
THOMAS W. D. WORTHEN,' 72.
EDWIN F. JONES, '80.
WILLIAM M. HATCH, '86.
ALFRED E. NORRIS, '94.
EARL L. HERMAN, '04.

Committee on Alumni Trustees:

HARRY F. TOWLE, '76.
OSMYN P. CONANT, '79.
ARTHUR L. LIVERMORE, '88.
JORDAN J. ROLLINS, '92.
GEORGE A. GREEN, '98.

The membership includes all graduates of the College, the Thayer School of Civil Engineering, and the Chandler School of Science and the Arts. Others who receive from the College an Honorary Degree, or are elected at an Annual Meeting, shall be honorary members, but without the right of voting.

The Annual Meeting is held on Tuesday afternoon of Commencement week. The Alumni Dinner occurs on Wednesday, Commencement Day.

By an arrangement with the Trustees of the College, five of their number are elected to their office upon the nomination by ballot of all Alumni of the College of three years' standing, one vacancy occurring in the Board at each Commencement.

Ballot forms, containing the names of five candidates who have been selected by the Nominating Committee for the vacancy, are sent to all Alumni two months before Commencement, and the voting closes at 6 P.M. on Tuesday evening of Commencement week.

LOCAL ASSOCIATIONS

BOSTON ASSOCIATION, FOUNDED IN 1864

President, GEORGE H. M. ROWE, '64.
Secretary, CHANNING H. COX, '01, Tremont Building.
Annual Reunion, third Friday in January.

NEW YORK ASSOCIATION, FOUNDED IN 1866

President, HARRY F. TOWLE, '76.
Secretary, KENDALL BANNING, '02, 44 E. 23d St.
Annual Dinner, second Tuesday in December.

CINCINNATI ASSOCIATION, FOUNDED IN 1875

President, GEORGE GOODHUE, '76.
Secretary, ALBERT H. MORRILL, '97, 4th Nat'l Bank Building.
Annual Reunion in January.

WASHINGTON ASSOCIATION, FOUNDED IN 1876

President, CHARLES H. TREAT, '65.
Secretary, HENRY P. BLAIR, '89, Colorado Building.
Annual Reunion in January.

CHICAGO ASSOCIATION, FOUNDED IN 1876

President, CHANCELLOR L. JENKS, '86.
Secretary, HENRY A. HAUGAN, '03, State Bank of Chicago.
Annual Reunion in February.

NORTHWEST ASSOCIATION, FOUNDED IN 1880

President, JOHN W. WILLIS, '77.
Secretary, WARREN UPHAM, '71, State Capitol, St. Paul, Minn.
Annual Reunion in winter, alternating in St. Paul and Minneapolis.

PACIFIC COAST ASSOCIATION, FOUNDED IN 1881

President, THOMAS A. PERKINS, '90.
Secretary, S. C. SMITH, '97, 717 Market St., San Francisco, Cal.
Annual Reunion, second Thursday in April.

MANCHESTER (N. H.) ASSOCIATION, FOUNDED IN 1881

President, ELIJAH M. TOPLIFF, '52.
Secretary, ARTHUR H. HALE, '86.
Annual Reunion, second Tuesday in January.

CONCORD (N. H.) ASSOCIATION, FOUNDED IN 1891

President, J. EASTMAN PECKER, '58.
Secretary, EDWARD K. WOODWORTH, '97.
Annual Reunion last Wednesday in January.

WESTERN MASSACHUSETTS ASSOCIATION, FOUNDED IN 1892

President, WILLIAM H. BROOKS, '76.
Secretary, C. HENRY HATHAWAY, '07, Board of Trade, Springfield.
Annual Reunion in February.

VERMONT ASSOCIATION, FOUNDED IN 1893

President, CHARLES S. CAVERLY, '78.
Secretary, CHARLES M. SMITH, '91, Rutland.
Annual Reunion on call of Executive Committee.

"THE GREAT DIVIDE" ASSOCIATION, FOUNDED IN 1895

President, JOHN M. CONNELLY, '98.
Secretary, LOUIS D. FAUTEAUX, '04, 1524 16th St., Denver, Colo.
Annual Reunion at Denver, second Tuesday in January.

DETROIT ASSOCIATION, FOUNDED IN 1895

President, WILLIAM S. SAYRES, '76.
Secretary, NATHAN JENKS, '96, 3-4 Grand Circus Building.

ROCKY MOUNTAIN ASSOCIATION, FOUNDED IN 1895

President, CLINTON H. MOORE, '74.
Secretary, LOUIS L. CRONE, '01, Great Falls, Mont.

"OF THE PLAIN" ASSOCIATION, FOUNDED IN 1898

President, ARTHUR K. DAME, '82.
Secretary, CHARLES W. POLLARD, '95, 446 Brandeis Building, Omaha, Neb.

CONNECTICUT ASSOCIATION, FOUNDED IN 1901

President, CHARLES F. CHASE, '85.
Secretary, ALBION B. WILSON, '95, 38 Mahl Ave., Hartford, Conn.

SOUTHERN CALIFORNIA ASSOCIATION, FOUNDED IN 1904

President, CHARLES B. NICHOLS, '71.
Secretary, HENRY K. NORTON, '05, 830 H. W. Hellman Building, Los Angeles, Cal.

THE RHODE ISLAND DARTMOUTH ASSOCIATION, FOUNDED IN 1907

President, WALTER H. SMALL, '78.
Secretary, EDWARD G. CARR, '97, 75 Westminster St., Providence, R. I.

MEDICAL SCHOOL ASSOCIATION, FOUNDED IN 1886

President, WILLIAM A. MEGRATH, M.D., '86.
Secretary, HOWARD N. KINGSFORD, M.D., '98, Hanover, N. H.

Annual Reunion at Concord, N. H., at the time of the meeting of the New Hampshire Medical Society in the latter part of May.

THAYER SOCIETY OF ENGINEERS, FOUNDED IN 1903

President, JOHN J. HOPPER, '77.
Secretary, CHARLES H. NICHOLS, T.S.C.E., '88 care McKim, Mead and White, 160 5th Ave., New York City.

Annual meeting in January in New York City.

THE DARTMOUTH CLUB OF BOSTON, FOUNDED IN 1890

President, ISAAC F. PAUL, '78.
Secretary, HORACE G. PENDER, '97, 209 Washington St.

Regular meetings and dinners are held each month during the year, excepting January, July, August, and September. They are held at the University Club, 270 Beacon Street, or at some up-town hotel, on the evening of the second Friday of the month. The Annual Meeting is that held in December.

THE DARTMOUTH CLUB OF THE CITY OF NEW YORK, FOUNDED IN 1899. INCORPORATED 1904, DARTMOUTH CLUB OF NEW YORK

President, LUTHER B. LITTLE, '82.
Secretary, PEARL P. EDSON, '02.

Club Rooms, 12 West 44th Street.

Annual corporate meeting held the last Thursday in March. Regular meetings and dinners held the second Tuesday of each month except July and August. Club night every Tuesday evening.

THE DARTMOUTH LUNCH CLUB OF WORCESTER, MASS., FOUNDED IN 1904

President, EDWARD H. TROWBRIDGE, '81.
Secretary, DANA M. DUSTAN, '80, 340 Main St.

THE DARTMOUTH CLUB OF WESTERN PENNSYLVANIA, FOUNDED IN 1906

President, AUGUSTINE V. BARKER, '72.
Secretary, JAMES H. CONLON, 723 Liberty Ave., Pittsburg, Penn.

Annual meeting in February.

ASSOCIATION OF SECRETARIES, FOUNDED IN 1905

President, DANA M. DUSTAN, '80.
Secretary, ERNEST M. HOPKINS, '01, Hanover, N. H.

Annual meeting in February, at Hanover.

CLASS SECRETARIES

'45 James W. Rollins, Esq, 27 School St., Boston, Mass.
'46 Dr. J. Whitney Barstow, 1 Gramercy Park, N. Y.
'52 Mr. Martin H. Fiske, Temple, N. H.
'54 Mr. Benjamin A. Kimball, Concord, N. H.
'55 S. R. Bond, Esq., 321 John Marshall Place, Washington, D. C.
'56 Rev. F. D. Ayer, 3739 Walnut St., Philadelphia, Penn.
'57 Dr. John H. Clark, Amherst, N. H.
'58 Rev. Samuel C. Beane, 43 E. Haverhill St., Lawrence, Mass.
'59 Dr. Edward Cowles, 419 Boylston St., Boston, Mass.
'60 Rev. Arthur Little, 6 Melville Ave., Dorchester, Mass.
'62 Horace S. Cummings, Esq., 1750 K St., N. W., Washington, D. C.
'63 Mr. M. C. Lamprey, Concord, N. H.
'64 Dr. John C. Webster, 946 Jackson Boulevard, Chicago, Ill.
'65 Rev. Henry I. Cushman, 26 Pitman St., Providence, R. I.
'66 Mr. Henry Whittemore, State St., Framingham, Mass.
'67 Prof. Horace Goodhue, Northfield, Minn.
'68 Prof. Charles F. Emerson, Hanover, N. H.
'69 Mr. Charles P. Chase, Hanover, N. H.
'70 Hon. John H. Hardy, Arlington, Mass.
'71 Prof. M. D. Bisbee, Hanover, N. H.
'72 Prof. Albert E. Frost, Winthrop St., Pittsburg, Penn.
'73 Rev. S. Winchester Adriance, Winchester, Mass.
'74 Dr. Charles E. Quimby, 44 West 36th St., New York, N. Y.
'75 Henry W. Stevens, Esq., Concord, N. H.
'76 Mr. William H. Gardiner, 259 South Clinton St., Chicago, Ill.
'77 Mr. John M. Comstock, Chelsea, Vt.
'78 Mr. Walter H. Small, 42 Adelphi Ave., Providence, R. I.
'79 Mr. C. C. Davis, Winchester, N. H.
'80 Mr. Dana M. Dustan, 340 Main St., Worcester, Mass.
'81 Rev. Myron W. Adams, Atlanta University, Atlanta, Georgia.
'82 Luther B. Little, Esq., New York, N. Y.
'83 Alfred E. Watson, Esq., Hartford, Vt.
'84 Dr. James P. Houston, 1180 Sheffield Ave., Chicago, Ill.
'85 Prof. Herbert D. Foster, Hanover, N. H.
'86 William M. Hatch, Esq., 221 Columbus Ave., Boston, Mass.

'87 Mr. Emerson Rice, Hyde Park, Mass.
'88 Rev. William B. Forbush, 89 Hancock Ave. East, Detroit, Mich.
'89 Mr. James C. Flagg, Hackley School, Tarrytown-on-Hudson, N. Y.
'90 Charles A. Perkins, Esq., Criminal Courts Building, New York, N. Y.
'91 Mr. Frank E. Rowe, 79 Milk St., Boston, Mass.
'92 Mr. Frank I. Weston, New Faneuil Market, Boston, Mass.
'93 Mr. H. C. Pearson, Concord, N. H.
'94 Rev. Charles C. Merrill, Winchendon, Mass.
'96 Carl H. Richardson, Esq., 27 School St., Boston, Mass.
'97 John M. Boyd, Esq., B. U. Law School, Boston, Mass.
'98 Herbert W. Blake, Esq., Island Pond, Vt.
'99 Mr. Elmer W. Barstow, Central Grammar School, New Britain, Conn.
'00 Mr. Henry N. Teague, "The New Weston," New York, N. Y.
'01 Channing H. Cox, Esq., 426 Tremont Building, Boston, Mass.
'02 Mr. W. C. Hill, 15 Lonsdale St., Ashmont, Mass.
'03 Jeremiah F. Mahoney, Esq., No. Andover, Mass.
'04 Mr. H. E. Woodward, 35 Clark St., Lexington, Mass.
'05 Mr. Edgar Gilbert, Methuen, Mass.
'06 Mr. Ralph W. Scott, 133 Broad St., Boston, Mass.
'07 Mr. Thacher W. Worthen, Hanover, N. H.
'08 Mr. Laurence M. Symmes, Winchester, Mass.

PHI BETA KAPPA SOCIETY

Alpha of New Hampshire, founded in 1787.

President, CHARLES F. BRADLEY, '73.
Vice-President, GEORGE D. LORD, '84.
Secretary, JOHN M. POOR, '97, Hanover, N. H.
Treasurer, CHARLES A. HOLDEN, '95.

Annual meeting, in Hanover, Tuesday before last Wednesday in June.

CLASS OF 1908

Edward Payson Bartlett
Paul Mason Batchelder
Albert Richard Chandler
Edwin Woodbridge Darling
John Detlefsen
Harold Lewis English
Roger Frank Hill
Fred Hudson Hodgson
Joseph King Knight, Jr.
Joseph Richard Lunt
Frederick Hamilton Munkelt
Eugene Miles Prentice
Frederick Edward Schilling
Raymond Warren Sherburne
Park Washburn Stickney

PUBLICATIONS

All graduates are hereby earnestly requested to forward their publications to the College Librarian for preservation in the Alumni alcove.

The Annual Catalogue usually issued in December, will be sent to each Alumnus who has expressed a desire to receive it and has given his address.

An Obituary Record is published annually in the Autumn, and will be sent to the Alumni with the Annual Catalogue in December.

A General Catalogue, much enlarged, with historic notes and views of buildings, old and new, was issued in December, 1900. This General Catalogue will be sent to any address on the receipt of $.50 for paper cover, or for $1.00 bound in cloth.

In response to numerous requests that the proceedings of the Webster Centennial be published, a volume was issued by the College describing the exercises in detail and giving the addresses and speeches, together with notes of reminiscences. The price is $1.50 for cloth, and $1.00 for paper cover.

The Proceedings in connection with the Laying of the Corner-Stone of the New Dartmouth Hall, including the Historical Address by Professor Brown, and speeches by Lord Dartmouth and others, has been published in book form, and is sold at $1 00.

The Military Record of the Sons of Dartmouth in the Army and Navy, 1861–1865, compiled by Major E. D. Redington '61 and revised and edited by Major W. H. Hodgkins, Hon. '97, has been published by the Trustees of the College and is for sale at $1.00.

Orders for any of the above publications may be sent to Professor Charles F. Emerson, Dean, Hanover, N. H.

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